2600 Magazine – Volume 22, Number 2



Sraeli Payph







Jerusalem's "Old City." Not far from the Western Wall. Seems like all of that yellow space is just begging for some graffiti.



Jerusalem, in the shopping market district. A gray version with complimentary beverages.

Jerusalem. Near downtown. An orange card-only phone with what appears to be the phone number above.

Photos by Shibuya

For more exciting foreign payphone photos, take a look at the inside back cover!

Meetings Puzzle

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One Step Forward,

Two Steps Back

It's always good to see increased public awareness on an issue, particularly one whirt can have a fit
profound effect on our lives. Phyacy is just such an the pi
sissue. Over the years, the public has witnessed just forwa
how fragile that privacy is and how poorty protected
it confinues to be. But knowing this sixt nearly
quirer
ganda we continue to be fed needs to be rejected (Othe
out of hand.

You would have to be almost completely cut off from the world to have missed some of the most gireous privacy invasions that have taken place reently. This doesn't even take into account the wish list of our governments who want the ability to smoop at will and in secreey. We're talking about the normal course of business where our private records are open to unauthorized persons, bandied about, traded, sold, lost, and otherwise treated without the respect and care they deserve and in violation of the trust we have bestowed upon these entities.

Of course, watching the mass amena report these very same stories you might be guided to the conclusion that this is all the fault of hackers - as usual. After all, who else would invade your privacy, steal your identity, and flout the law? Certainly not our nation? angest comparations. Let's probe a little denore and see for ourselves.

deeper and see for ourselves.

In February, a data coldection company called in february, a data coldection company called choicepoint (self-described as "the premier provider of decision-making intelligence to businesses and government") revealed that it had sold the private information of 145,000 people to a company that chand no businesse having this information. The irony is quite bitter. Here we have a company with ten bit. Jion records that is responsible for running backgound checks on just about every American critizen and somehow they weren't able to figure out that the company they were doing business with was thaulthing.

In March, LexisNexis reported that 310,000 people and their driver's iteners enumbers and Social Security Numbers compromised through a subsidiary known as Seisint Inc. It seems that unauthorized accounts were created in the name of various law enforcement agencies and the whole thing wasn't even uncovered until the perpetrator's parents turned

The banking world has been especially hard hit by security lagues involving its customers. Bank of America lost backup tapes with data on 1.2 million federal employees in February. Citigroup managed to top this in June by losing tapes with the records of 3.9 million of its customers. Wachovia employees t were implicated in a fraud scheme that involved the records of nearly 700,000 customers. And these are

only some of the reported cases. In fact, most of these cases would never have been known to the public if the companies themselves hadn't come forward.

Oddly enough, only one state (California) rey quired consumers be notified when their confideny tal records were given to unauthorized entities.
(Other states are now in the process of passing their
own such laws.) This relatively recent law (2003)
may be the reason why so many incidents are being
reported which leads one to wondy incidents are being
reported which leads one to wondy incidents are being
reported which leads one to wondy in the fact that hose

When you take into account the fact that these companies think nothing of sharing this data with call centers all ower the world, regularly ship unen-crypted copies of all of their databases through commercial shippers, and basically sell their cust pomers' information to anyone willing to pay, it's a wonder therest any exemibance of privacy left at all. Then of course voul page your centeric stays exemibance of the course will page your centeric stays.

Then of course you have your generic screwups where phenomenally studie things happen due to the people in charge not having a clue. The victim is almost always another bit of privacy.

There was an incident involving at least six universites, including Stanford and M.I.L., where information on the status of prospective students applications was actually made available online. To anyone in the world. And rather that focus attention on the deplorable security practices that made such a thing possible in the first place. The schools decided to make a big show of rejecting any applicants suspected of using this method to investigate their status. We would expect this kind of treatment if the applicants had actually managed to break into acomputer to get this info. Or ever if they had been the ones to figure it out. But these were people who simply checked a website that had material about them publicy, available Whether they were just curious about their own status or merely checking to see if such a thing was actually wide open to the public, they were hardly the reason why it happened nor were they engaged in any behavior of a clearly dishonest nature. Pretending a problem doesn't exist seems to be the preferred method of dealing with such things in the eyes of our leading universities. It is little wonder so many carry those values on to their respective professions.

In another incident, more than 100 students at the University of Kansas got an email telling them that they had failed a class and were in danger of having their financial aid revoked. Very email aid-dress was itsted in the cc. field meaning anyone getting this letter knew the names and email addresses of everyone else who shared their status. As far as we know, no action was taken against the people registrow.

Sponsible for this gross intrusion into people's lives. Clearly three were individuals who were untrained in handling confidential matters who were given aces to private records which they shouldn't have been anywhere near. There's nothing to indicate that this sort of thing is at all unsual, based on the many similar storines circulation.

many similar stories circulating.
But this kind of sloppiness and gross negligence is only part of the story. The deliberate intrusions by those who are unaccountable are orders of magnitude worse.

Relatively few of its know that Fedex has been permitting federal authorities to peruse its databases and view all kinds of information on who's sending packages where how they're paying for it, and moore -all without those little things called warrical was quoted as saying. It was almost three years ago that Operation ITPS (Terrorism Information and Prevention System) was abandoned between and prevention System) was abandoned between accuse of a public outer gainst its Orwelian vision of tutility workers, drivers, and delivery people being organized into "watchers" who would be on the lookout for any kind of suspicious activity or persons that they came across in their daily routines. With this level of cooperation by Fedex, the same vision is achieved while bypassing all of the legalities involved in government. The Department of Justice has praised fedex for "Dassing along information about publicly observed aberrant behavior." So any thing a honormal is now to be considered potentially

dangerous. What an enlightened approach.

Afrithes have also been caught furning over all kinds of information on its passengers to the government without any legal reason for having to do so. Schools too are being encouraged to hand over their previously confidential records. And tibraries their previously confidential records. And tibraries are increasingly coming under pressure to reveal information on who is reading what to the authorities. Fortunately many librarians have a very keen sense of the value of our privacy and have been doing everything in their power to subvert and expose process. But that hasn't been enough to stop is braries like one in Naperville, Illinois from recently finistalling fingerprint scanners for Internet access process.

Apart from the terror threat, the equally nebulous 'hacker triear' is used most ofher to justify draconian measures or to shift blame away from those who are really responsible. News reports define the threat as "hackers who want to get access to your credit card numbers' and never "companies, organizations, and governments that intrude upon your privacy by trading your prisoand information, leaving it unprotected, and examining aspects of your life that are none of their business."

One of the more absurd stories that was circulating live the place in May accused "hadkers" of "highling computers horstage" by somehow encrypting victims' hard drives and demanding money in exchange for the key. We have yet to hear of a single

instance where something like this actually happened. It seems to be more of a theoretical scenario which might work in a TV series but doesn't have much of a chance in realifie. Let's set saried the clear fact that this has got absolutely nothing to do with hacking. The process of encrypting all of these files by simply having someone visit a website and then someone or worst and we somehow coordinating both the decryption and the transfer of money without somehow being traced is pretty farfetched once you start to actually think about it. Yet this story was front page news as the latest hacker threat. Meanwhile the True threats were given far less attention, if any at all were given far less attention, if any at all.

were given in ease attention, in you cau, Such stories will always pop up because they're an easy way to get rathings and readers. While we meed to always challenge misinformation whenever it appears, we need to also steer attention towards the real threats and not let the perpetrators get away with their deeds.

Perhaps it's time to demonstrate how easily private information can be obtained by focusing on those who have been so remiss in their responsibilities instituted as a pretenting our private. All kinds of decuments exist online with information that really has no business in the public domain. Social Security Numbers are considered with enforcemed unitisted phone numbers are passed around from banks to telemarketers, and "mistakes" like the ones mentioned above are occurring in ever increasing numbers. So why not target the corporate boards, the executives, and the politicians and make their private information as easily accessible as they make ours? If it's legal to have our Social Security Numbers publicity displayed, then why should elected of ficials get to have theirs crossed out in public how come apports are more amany examples of how come apports.

documents? Inat's Just, who, so far, the only reactions to the problem that we've seen involve a combination of marketing new products and blaming anyone who uncovers the weaknesses. Nothing new there. The sad fact remains that if we dorf take action, our privacy will continue to mean less and less. There's nothing in the products to "product" and dreate an element of fear that will lend itself to passing whatever new bit of legislation strikes their fancy. Expect a nuest of legislation strikes their fancy. Expect a push for mandatony identify cands that will. "protect your identify" from the evil people who wish to steal it, offer early to buy instructe policies to protect your identify from the evil people who wish to steal it. Get ready to buy instruct policies to protect your identify to buy the evil people who wish to steal it. privacy from the evil sendity thineves - those who turn your life into a commodity to be bought and sold; they will be sure to cover their asses admirably and turn the attention to the small time crooks as the cause of the problem.

It's great to be aware of what's been going on But that's only the first step. Now it's time to demand accountability and take back an importantipee of our lives.

5

Lamms/

'No government can be long secure without a formidable opposition." - Benjamin Disraeli

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Hacking Google

The state of the s AdWords

have been a huge fan of Google over the past few years. I have spoken very highly of it on my weekly radio show Binary interpreting finds, discussing new features, and was beginning to question some of Google's practices. Whether it was the toolbar, the myste-GMail privacy concerns, their purchase of the Revolution Radio discussing hacking techniques, of other things Google-related. Unfortunately, over the years I have started to find that was starting to think that maybe they are not rious "pagerank" system, their spidering engine, Usenet archives, or any number of other features, quite as wholesome as they first appeared. Like many others,

vances and pushing the envelope in terms of search engine results. I did not necessarily have a legedly tracks every IP address and associates it with every search request and therefore, every from Google. If they didn't track such intrusive information then there wouldn't be a problem. I liked the fact that they were making adabout the features and their relationships with each other. Putting ads in the GMail accounts? Not such a big thing, except that Google alsonal email, but I am not willing to take their That pretty much trumps any privacy statement problem with the individual features themselves, but I began to question the way that they went email. They can claim that no human reads perword for it anymore. And what if some law enforcement agency subpoenas that information? But I digress.

ater.

no experience in and I thought it was time to take the dive. I decided that my next area of There was still one Google product that I had study would be the Google AdWords program.

Google AdWords, as you might have guessed from the name, is an advertising program offered your search results. These results also go in your GMail, groups, or anywhere else that Google has authorized to use the AdWords ads. They also ads on the right hand side of the page containing by "the big G." This program is what puts those have some partnered sites that use these ads on

their pages as well. These locations seem to change frequently and their documented list of Google AdWords competitor, Overture, which is clients is no longer correct. Most of the ones that I tried to follow-up on have switched over to the used by both Yahoo and MSN. In fact, Overture is

by stankdawg@stankdawg.com

actually owned by Yahoo now.

I don't really think that advertising my site(s) plunge. The plunge consisted of heading over to adwords.google.com and reading the available documentation and then dropping 20 bones to debit from which your fees are pulled and it is the minimum required (at the time of this writing) to create an account. They pull five bucks for a There are a few settings that you create when you set up the account which will come into play in Google is worthwhile, but I figured it would be an interesting experiment and research assignment. It may even be an opportunity for some "investigative reporting," if you will, so I took the get an account started. Your \$20 is basically a setup fee from that deposit in the first month.

ferent audiences and you would not want to mix these sites and topics together. This is only for Now that you have an account, you need to ing company and you need to advertise for a pet store, a hobby store, and a car dealership. Each organizational purposes and not very interesting create a "campaign." Campaigns are logical divisions of different topics that you want to advertise under the same account and bill to the same place. Most small users like me will only need one campaign. If you have sites that cover several different topics, you might want to separate your ads based on the topics that you want to advertise. Perhaps you are a web developer or a hostone of these will have different keywords for difto hackers.

Each ad group has one ad which lends to being While campaigns are logical divisions for conpaigns. Campaigns are based on topics, but ad groups generally are based on individual sites. tent type, "ad groups" are subdivisions of camused one per site. For the example of a car site,

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millions of dollars and justify the Insert an obligatory lawyer joke new cars for used cars. The reason is because there will be different keywords that fit each site better. In my case, I made a different might have a different ad group for

moted from a webmaster to a babysitter. Certain words are worth more than others. Certain words are worth more than others. Obviously there are many car dealerships out "there and they all want the same terms such as a "new car dealer." The way Google handles this vonflict is that they sell to the highest bidder. The more you bid on the keywords that you want, the higher on the page your ad will appear. This bidding war is a perfect design for pay-per-ctick advertising. You only get charged your bid kind. other ad groups that I use to do some "testing" but basically you will want to create a different ad group for each different ad that you want to only person who wants those particular keywords and there is only so much screen space to dish out. This is where the bidding comes in. ad group for different sub-domains and projects on our site. For example: We have an ad group for works is very similar to an online auction process. Instead of bidding on items, however, you are phrases like "free porn" which may generate many hits but no one will buy anything once they get to your site. You paid for their click but they didn't give you anything in return. They didn't ing appropriate and manageable keywords is one factor, but the other factor is that you are not the group for different sub-domains and projects Binary Revolution Radio and a different ad group for Binary Revolution Magazine. I also have a few At this point, you should still have \$15 left to spend on advertising. The way that the system bidding on "keywords." You have to decide what would use keywords for different car models or other related search terms. You could also put want your car site, they wanted free porn! Chooskeywords will provide you with the highest numof clicks. Obviously, if you are a car dealer,

you

better keywords to add to your campaign. Once you put in a few keywords to get started, the keyfound myself with many more based on the keyword tool. But this was where more problems being canceled way too easily and we're not given a fair chance to perform. Like I said earlier, if the campaign was on a larger scale, then this statistics model may hold true. But for smaller campaigns it simply was more of a hassle. It also led to another problem that I found slightly ironic which is that the keyword tool suggested words When it comes to the keyword system itself, one of the things that I found interesting was the keyword tool that tries to help you come up with words or phrases that are related to your original keywords. You will find some interesting results this way. I started with only a few keywords and started to occur. I found that my keywords were and phrases to me that I was later denied due to their ToS (Terms Of Service) anyway. Why word tool will then try to suggest similar keycounted as an "impression" and every time someone actually clicks on your ad, it is counted as a "click-through." You must maintain a certain CTR you do not stay above your CTR, your account will be slowed and/or canceled. An interesting bit of train is that the most expensive keywords are usually those related to lawsuits and lawyers who are looking for the big payout. This includes words and phrases like "class action" and "sip and fall" with the idea that it only takes one big payoff from a class action lawsuit to make them amount when someone actually clicks though your ad. Every time it is shown on the page, it is (click-through-ratio) that generally needs to be at least 0.5 percent (one click-through out of every 200 impressions) but this percentage fluctuates based on other factors like the size of the

lawyer joke of your choice cost of the ads.

far too easily. If your keywords fail too often (there are levels of failure that are unimportant in this context) your account will be "slowed" and your ads will not show as often, or so they claim. I found that my keywords, being very detailed and obscure to the non-hacking world, were still being shown when I tested for the same keywords. I guess you cannot slow something down or lower it in the results when it is so unique that ation. This created a paranoid existence where I was scared that if I did not check the account daily, they would kill it again. I was suddenly decampaigns it was woefully skewed even to the point that I had ads that were being slowed or canceled within a day of creating them. The Ad-Words system expects more clicks than a very unique keyword can provide and it just gives up far too easily. If your keywords fail too often there are no other ads to put in front of it. If you want to reactivate your account to full speed, you have two grace reactivations and then to reacti-So this brings you to the keywords section which is where you will do a lot of hacking to get good keywords and find some interesting things ads. AdWords will estimate the number of hits and the CTR using some magical formula that is not publicly available. This tool may work fine for larger or medium sized campaigns, but for small vate it a third time, you must pay a \$5 dollar reactivation fee (which is ridiculously unjustifiable for an automated system). My account was "slowed" a mere 48 hours after its initial creabout the system. You choose keywords that you think are relevant and will generate hits on your

campaign and the frequency of the keywords. If

recommend them if you are not going to allow me ence became totally negative with AdWords. to use them? This is pretty much

in numerous places. Apparently, Google did not share this viewpoint as I found out later. In the beginning, however, when you create a keyword in you ad group it gets put into the rotation imsuspended. I emailed the customer service person and explained to them that my site did not contain any reference to "cracking" and I even went so far as to show them the Google link to "define:hacker" which explained the definition of hacker right from their own site. I also pointed ToS had a rule against "hacking and cracking" sites. I knew this ahead of time, but I know that their policy and understand that my site does *not* promote illegal activity and explicitly states that mediately! That is important to note. My ad group stayed in rotation for about four or five days before I got the ToS notice that my ads were also gave links to several prominent sites that tween hackers and crackers. None of this did any I also admit up front that I knew that their cracking. Because of this, I thought that maybe Google would "do no evil" and be liberal with service at http://www.google.com/intl/xx-hac ■ker/ which seemed quite hypocritical to me. I out that Google even offers a "hacker translator" clearly define and delineate the difference besite is a hacking site and does not

if you want to be a spammer or promote your prof site for a few days on Google (although some words are explicitly banned from being in an ad at all). You will pretty much have your ad out there for a few hours or days before they will catch and ban it. Overture checks your ads before they are made available. They also banned my ads from Overture, but at least they weren't hypocritical about it. Google was banning my ads for having the word "hacking" in them but Amazon That was the motivation for this article. If Google doesn't want to be reasonable and wants to keep forcing their rules on me, then maybe I should point out the flaws in their system for the entire world to see. First, let me point out again that your ads do not get checked upon initial creation before they get added which is very useful and eBay were both using that keyword in their ads. I guess they have bigger wallets than I do. The next big flaw is that when Google "dis-

the rotation until you correct the problem. They have to err on the side of caution and give you a chance to fix the item in question. To do this, you ables" your account, they simply remove it from go into your ad and change it based on their explanation of the problem. In my case, they didn't like the words "hacking magazine" so I simply

was simply a site about computer security but they weren't hearing it. I got the same cut and paste response of the same "no hacking or crackad did not have the word "hacker" in it and that it fight. And I also wasn't going down without using up my \$15 credit that I still had left!
This is the most hilarious part of the story. abled my account again, this time for the same reason. I again tried to reason with them that the ing" rules every time I contacted them like I was some sort of moron. Fine, if they wanted to play that way, I certainly wasn't going down without a 'security magazine" and it was imthem another four or five days before they disthe rotation. back into

going to put my ad back out there. I put the word "hacking" back in front of "magazine" and voila! I was back in business! It was that simple! I can play this cat and mouse game for a long time if they are not going to block my previous ads and even if they tried I will apply some of the tactics began to wonder whether they kept any sort of database or history of ads that were banned to stop me from going back to them again. I edited Due to the method by which they check and verify ads, I simply went back into my ad and changed it again thinking that it would probably go back into rotation immediately. I removed the word "security" this time and simply left "magazine." The ad was instantly reactivated. Well, I my ad again and decided that I was damn well from my "31337sp34k" article to make tiny changes and bypass just about any filter they want to throw at me. And so it went for about a month until they tried something different.

good

that they themselves recommended earlier with their own keyword toold I decided to push back a little bit and complain that they were banning keywords that were suggested by their own syskeywords that were suggested by their own system but they still continued to cut and paste the When they decided to ban my ad this time, they also added in a little extra twist. This time they went into every single one of my ad groups curity," some had "hacking," etc.) but even better than this, they also went in and banned every individual keyword that I was using. This included and banned all of my ads (some of which had "sesame response to me over and over. Well, now I had to handle this problem as well. "security magazine," "hacking m "phreaking magazine," and included "hacking

they were, once again, instantly reactivated. This time, however, they were not responding to my let me repeat it. I went in and Obviously this is because even groups themselves were back in As if it wasn't funny the first time (two paraedited my ads again just as I had been doing and search terms. C though the ad graphs ago),

each click-through. Now, I don't believe it is so simple as to allow you to just sit and click over and over. It looks to me like they use session one person. This may also be used in conjunction with IP resolution to only give one click per customer. I think we all know that a little scripting and a list of proxy servers can overcome both of these obstacles. And since the ads disappear af-ter the daily limit is reached, this attack also as possible and they will pay their bid amount for variables to limit how many clicks can come from cut my list of keywords out to a text file and boys right back in. I think you can already guess what happened. I was back up and running with all keywords intact. They do not seem to check ads with any regularity. banned. Well, I figured that since it worked for the ad itself, maybe I could also modify the keysaved the ad group with no keywords in it. I then clicked on "add keywords" and pasted those bad words just as easily and reactivate them as well.

could just click their ads as much

you do this because it is pretty rude and it will cost someone money which is not a good thing. doubles as a DoS attack by removing the ads for 24 hours, which might be an interesting move for I set my daily limit very low so that it would take you months (literally) to use up my \$15 of credit. Those lawyers who pay big money for the expena competitor to make. I wouldn't recommend that Don't bother trying this on my campaign because sive keywords have a little more to worry about than I do. But this was just the story of the big loopholes that I found in the fundamental aspect of their system. I also have some general advice for Words. One of the controversies with this type of advertising is that you can use just about any keywords that you want. This includes proper names and copyrighted titles of companies. Coke unless someone complains, it will be right there. Now the big guns like the ones just mentioned will put a Cease and Desist on that activity with a quickness, but for smaller sites, you have some more flexibility. I use keywords of some other popular hacking magazines in my ads (*cough*) and people who actually do want to use Google Adcan use the keyword "Pepsi," Honda can use "Toyota," and similar related products can try to capitalize on their competitor's name and, some security trade magazines as well to try to let people know that

Delete Edt CPCs/URLs Stank Dawn owns Another similar tip is to use miswe exist

spelled versions of your keywords. Deep Learncomer.
This is a huge place to get a leg up to knywned no your competition. Google will Send Treat come up with a suggestion if it no command tices a user's search terms are mis- To google wally sucket. spelled, but in the meantime the user has scanned the page and seen your ad - increasing your visibility. You may get them to click on your ad without even correcting their spelling and running the correct search. I think this is a great example of social engineering where you have to understand how people think and see

One of the more evil things you can do is based on the "daily spending limit" which is one of the items I mentioned earlier that is set up when you first make the account. You can tell Ading limit to be. When you reach that limit, based on enough click-throughs to hit that amount, Words what you want your maximum daily spendwhere that intersects with technology.

in the face to Google. I created an ad group (which will not be working by the time you read this). I immediately took it down, for fear of getting canceled outright, but it is here for postering canceled outright, but it is here for posterily. Finally, the funniest hack of all is my last slap

 Create New Text Ad I Image Ad Edit - Delete owns AdWords are belong to DDP!

clicks The ad group that you see in the first image

while I am waiting. I would like to continue to explore. Because of this, I am not leaving this keyword string up and running since they will probably shut me down if they saw it so if you try it as you read this, it will not be working (at teast not from me). This is the new way to protest and produced the results that you see in the second image when searching for the string "Google really sucks." I am sure that my account will be shut is reminiscent of the fordreallysucks com saga a few years back. You can not only put in company protests, but down when this article is publicly released, but

personal messages to people triggered by key-words. Perhaps you have issues with a certain person and you want their name and a mice mes-sage to appear when you search for them. It sage to appear when you search for them. It could be used for almost anything. Theoretically, you could use this trick to send hidden messages

whelmed with so many hits or orders that they cannot keep up. If you really wanted to be a jerk to your competitor, or just to a random stranger

the next day. This is meant to be a safety measure for smaller sites who don't want to get over-

your ads will be removed from the rotation until

0 30 www.google.com ut 796,000 for google really sucks. (0.57 seconds) owned by the DDP Stank Dawg owns AdWords all your base are belong to DDP! www.stankdawg.com • 🔞 • You're on

would contact the receiver and give them the phrase and they would know to look for it on Google and then click on the resulting ad which would take them to a secret site or message someone by sending them only a very long (80 gibberish phrase would not generate any hits, but the ad is still delivered (this is verified). You character maximum) and unique key phrase. The or the ad itself would contain a key to another (which you would have encrypted, of course) message. The applications are endless.

So this research has been going on now for a would share some of these loopholes with people couple of months as of this writing. I only want to get my \$20 back out of it and then I will cancel the account. While I was waiting I thought

real tips on how to run a successful campaign in bly save your money and just send them a link to program as much as I have. I also shared a few general. Tutorials are available on the Internet that contain probably even less information than I have provided in this article, yet people charge so that they too could enjoy the Google AdWords hundreds of dollars for them. You should probathis instead.

answering to stockholders whose bottom line is profit. This has been the downfall of many comvacy should be nonexistent and they are probably too late now anyway. Google is the new Big Brother... and he is definitely watching. I loved Google for the longest time. But about Google went public on August 19th, 2004 and started has been introduced. Your expectations for pria year ago that all started to change. They began making questionable business decisions that panies. Bias (in the form of financial pressure) were obviously financially motivated.

Shoutz: Alternative search engines, my fellow passengers on the flight back from interz0ne 4 who formed a circle around me listening to me teach Google hacking, Acidus, Decius, Rattle, romanpoet, Elonka, the listeners of "Binary Revolution Radio, " and of course, the DDP.

"The Revolution Will Be Digitized!"

Satellite Imagery

Hacking Google Map's

by Morcheeba

umented but it's fairly simple to reverse Interested in accessing Google's satellite imagery for other purposes? The protocol isn't doc-

tion that handles the user interface. The variable and function names have been run through an obfuscator, so the code is hard to read. This isn't The main application is a JavaScript applicashorter names also make it quicker to download. just a protection against reverse engineering

If you have a Google map running, you can use Safari's Window>Activities screen to show all the image tiles loaded. Each tile is a 256x256 pixel JPEG picture that is approximately 10-30KB in size. For example:

com/kh?v=1&t=tqtsqrsttqtqttssrr http://kh.goo

What's with the URL? I was originally expecting some sort of longitude/latitude coordinates tiles come with the "©2005 Google" watermark already on them.

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just a cryptic string of letters. Well, it turns out there is a method to the madness and this format some zoom factor, but this seems to be is simpler and more precise than a numeric

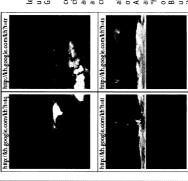
hole, which is the name of the satellite imagery tool company Google bought in 2004 (see the spy satellites operated by the National Reconnaissance Office. First off, the "kh" in the URL stands for Keywww.keyhole.com). It is also the name shared by

dow._ktv" value. I'm not too sure what that is, All characters in the value of the "t=" parame-The "v=" parameter is the JavaScript "winbut it isn't necessary in the URL.

By searching the JavaScript, you can find a hard-coded starting point for all imagery: ter are either "q", "r", "s", or "t".

http://kh.google.com/kh?t=t

When you append one of the four letters to the above link, you'll get one of these pictures:



...and extracting the lower right corner of that image yields:



ages. As an added bonus, because no numbers are used, there are no rounding errors that could computer graphics data structure used to efficiently access and store multiple resolution imAlso, be aware that while Google has talked Access to these pictures could be terminated at Because users always download Google's most

Notice a pattern? The appended letter specifies which quadrant to enlarge:

We start with the upper left picture contain-

ing the northern hemisphere ("t-tq") and add another letter - "t" - to zoom in on the lower left corner. (Note that requesting data for the dark upper corners returns a warning that Google has no coverage of that area.)



The pattern is continued until the desired level of detail is reached. Currently, there can be up to 18 characters following the "\texts" tag, but Google could increase resolution in the future. The technique used is a quadtree, a common

create artifacts at the edges of tiles.

about opening up their API, they currently do not officially sanction this method of image retrieval. any time - either by making the server verify the "http get" header information (such as referrer), or by changing the access mechanism entirely. up-to-date JavaScript viewer, backwards compat-ibility does not need to be maintained.

By Example

■Jeeves') || strstr(\$HTTP_USER_AGENT, Ask strstr(\$HTTP USER AGENT,

"Wget"))
echo "<meta http-equiv=\"refresh\"
econtent=\"0;url=http://\$target_url\">";

else

</HEAD> <BODY>

<!-- "jack_mehada.php" by J and Evil Pope
 of http://www.thepopeisevil.com --> </BODY>

</HTML>

<!--END HTML/PHP CODE LISTING - "jack_me +hada.php"-->

are in there too. Bots get a redirect to our target page, everyone else gets a redirect to http://www.thepopeisevil.com. If you know a little about php and a little about browsers, what this script does should not take long to understand. The if statement checks if the software that requested the page is a bot by checking its user-agent string. I didn't just check for googlebot - msnbot and a few others

You can change the script to redirect non bots to any page you want by changing the line:
echo "meeta http-equiv="refresh\"
wcontent="0;url=http://www.thepopeis
wevil.com\">0;

ţ;

echo "<meta http-equiv=\"refresh\" -content=\"0;url=http://hornygirls.

on your web host, assuming your host supports php, you can jack any page you want by linking the script on an existing web page. I'd do it like Save and upload this script to your web host, naming it jack_mehada.php. Once the script is up #porn-host.org\">"

> Magazine-0092

75 Page

jeoglejacking

evilpope@thepopeisevil.com

Lots of noise on the net lately about this new phenomenon called "Googlejacking." For those of base, say http://www.cnn.com, is linked on a when a user clicks on the searched link it will go through the off-CNN page, not the original CNN you who have spent the last month or so in a cave, googlejacking is when a website in Google's listing is linked in the Google database to a site the original page. For instance, you could have a search page to http://www.thepope ★isevil.com/cnn/, or even http://www.horny ■girls.porn-host.org/cnn/. The original website link will be different in the Google database. So that is *not* on the domain of the original writer of description and title will be the same, only the situation where a page listed in Google's data Google

Danger, Will Robinson

a meta refresh is important because otherwise googlebot will index the redirect page as a page with no content (a blank page) instead of a page that is identical to our target page. Confused? Hopefully when we look at the exploit code it'll How does this happen? The problem is with the way Google handles 302 redirects and meta content are not in its database. A 302 redirect or a META refresh with zero wait time will redirect the browser to another page, so Google does not want to index both the redirect page and the page you are redirected to. The zero wait time for refreshes with a zero wait time. In other words, Google tries to make it so pages with the "same' all be crystal clear.

and theoretically any other search engines will have the same problem if they handle 302 and This problem isn't restricted to Google. MSN Search is also reported to have this vulnerability meta redirects the same as Google does.

cle), but what I couldn't find was some good code exploiting the vulnerability. I hope to remedy this with "jack_mehada.php", shown below. There's a lot of other good information already out there (see references at bottom of arti-**Exploit Listing and Discussion**

<!--BEGIN HTML/PHP CODE LISTING -#"jack_mehada.php"-->

<?php \$target_url = \$_GET['url'];

-Summer 2005

ET abed.

this if I wanted to jack cnn.com:

My Jacker

or like this if I wanted to jack a friend's geo-

<a href="http://www.my-website.com/jack</pre>

■mehada.php?url=www.geocities.com/ ■member696969/my_lame_page.html">Jack-o-

When Google rolls around and indexes the page with these links on it, it should also schedule the jacker pages for indexing. Yay!

rithm. The PageRank algorithm is Google's method of checking the "quality" of a site and is out of the scope of this article. But check the references below if you want to know more, or look it If you want to have the best chance of your jacked page being listed instead of the original, on wikipedia.com. Trying to get a better PageRank is not necessary however, since obvi-PageRanked pages have jacked higher you need to work around Google's PageRank algo-**Tips and Tricks**

PageRanked pages many, many times. It just

And of course, for best results try the shotgun approach. Jack lots of pages using lots of links. And if you know php, edit the script and get

a page? Search for the page you're trying to jack in Google. If the green URL under the description How do you know if you've successfully jacked is your jacker URL instead of the original page URL, you win. Game over man.

Email me if you have questions or figure out something creative to do with or put into the script. Also email me if you successfully jack something so we can share a laugh. Flames will of

http://clsc.net/research/google-302-page-hi jack.htm - "Page Hijack Exploit - 302, Redirects course be forwarded to /dev/null. References Enjoy, and happy jacking!

http://en.wikipedia.org/wiki/Pagerank - Article and Google"

on PageRank on wikipedia

Experiment SYN-fu

networking, here's a quick breakdown

other such items but I won't go into them here. We're just interested in the handshake for the purpose of this article.

equation:

A simple program to open a TCP port. Useful for testing SYN packet issues on state-like firewalls !/usr/bin/perl -w

http://www.assdingos.com/grass/

Shout outs: Cat5, Rijendaly Llama, chixOr, alxOr, exial, stormdragon, lucid_fox, Deathstroke, Harkonen, daverb and eXoDuS (YNBABWARL!)

code used from snacktime.pl
//www.planb-security.net/wp/snacktime.html Some code used from thtp://www.planb-se (C) Tod Beardsley

copyright (C) Grêve Rose software, you can redistribute it and/or mile program is free software, you can redistribute it and/or modify it under the teams of the GNU General Public License as published by the Free Software roundston, either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful

by Gr@ve_Rose

SYN/SYN-ACK/ACK is the basic and initial part of a TCP conversation which happens every time you make a connection from one host to another using the TCP protocol. If you've been networking for a long time, this is always at the forefront of your mind when troubleshooting. If you're new to

computer will send a SYN pracket to the server which, in basic terms, is just a "Hey, I want to talk to you." The server then sends back a SYN-ACK packet which is, "Hi. Yeah, let's talk." Lastly, the client will send an ACK packet after which data transfer begins. This basic process is also known as the "Three-Way handshake" or "TCP handshake." There is quite a lot of information within these packets like sequence numbers and tion to www.2600.com from your browser. Your Let's say you want to initiate an HTP connec-

Before I get to the details and code, I feel it would be wise to share the "Why?" portion of this

activated by another customer.

Another trick might be to figure out what the code represents. Which segment of the code is the

Next Christmas, if you give out Home Depot gift cards, you may be giving the gift of nothing.

Look at one of their cards and you'll see that

by Glutton

there is no mag stripe. It has a barcode on the back, printed right on the plastic. This sort of baccode is called a "codabar" and is a commonplace configuration typically used by retailers for internal organization. It doesn't have a fixed length nor

will create their own check digit structure. When the customer or cashiner fashes the card over the store's reader, a database is checked to see if the card has been activated and how much money the card has been activated and how much money.

remains in the account.

Unfortunately. The Home Depot doesn't use some proprietary or nutsual bar code for their cards. It is easily duplicated by evildoers. All they have to know is how to make a codabar.

does it use a check digit, although sometimes users

The Depot's Lousy Security

store number? Well, that's easy enough to figure

out since the store number is printed on the re-

ceipt. Analyzing a number of cards could reveal if there's a check digit structure. Which numbers change? Which do not? Once he had it figured out, the evildoer could create random barcodes and see if they are activated. So the evildoer goes to the store clutching a

pany on the reactive support side of things which means that I get a lot of interesting scenarios where someone's firewall isn't working properly or they're having troubles with a specific feature of their firewall. One day, a coworker of mine was working on a case where the client's firewall I work for a large networking/security com-

> cashiers and has set up self-check-out stations in a lot of their stores. The evildoer scans his forged forged card. What next? Surely any cashier with half a brain cell could tell that there is a new piece card, and if there is money in the account he thing wrong and the attendant comes over to help, he palms the fake card and shows him a real card. of paper taped over the bar code. Fortunately for our villain, The Home Depot decided to hire fewer The attendant "shows him how to do it" and the waltzes out with his ill-gained loot. If he did some thief escapes to plot once again.

only on criminals not knowing how to make cod-abars. With self-check-out lanes, a potential thief can experiment all he wants until he figures out The security on the system is awful and relies how to rob his fellow customers.

pilfer money? For starters, he could peek at other barcodes in the store. Unactivated cards are typically hung in racks for peeple to buy, How hard would it be to grab one and look at the number? Scanning the code with a reader confirms that the

number beneath the code is faithfully represented (which in itself is a security flaw). Then the evidoer prints out the code and tapes it to the back of the card. All he has to do is wait for the code to be the card. All he has to do is wait for the code to be

Pro or a similar product from a file sharing network and cranks out a barcode. How could he use it to

Now imagine an evildoer downloads Bar Code

So next Christmas, are you going to give someone a card with nothing on it?

Magazine

2600

would turn a SYN packet into an ACK packet for no apparent reason. Weird, eh? After doing some more in-depth research, we found out that the client was using a specific device behind the firewall which had a limited number of source ports to use and that when it attempted to create a new connection, the firewall would see the packet come from the same source port before the TCP end timeout was reached and thought it was part of the connection. As we explained this to the client, they wanted proof that the firewall was not the problem (a fair request) and that it was their device. So we set out to reproduce the

The biggest hurdle we came across is that all the programs that we could find for generating a TCP handshake would close the connection with a FIN packet immediately after running. We needed it open, not closed, so we could test our hypothesis. That is how this came to be.... issue.

source port of the client. This will ensure that when you are troubleshooting a possible SYN The code itself is very simple. It uses IO::Socket::INET to open a TCP connection from one host to another. Yes, it sounds just like telnet. However, with this code you can specify the issue, you can use the same source port as an already established connection. You can also use this to open an initial connection and use it as a "door stopper" so you can further test the issue

-Summer 2005-

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sub usage {
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                                                                                                                                       -2600 Magazine-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   # Trv6 Support - README
# To que IVe6 Support you will need to install two
# additional Perl moduless Socket and IO-Socket-INET6
# additional Perl moduless Socket and IO-Socket-INET6
# Eirst. Gomblood each packets from CMPAM authors/id/U/UR/NOMEMOTO/Socketfe-D.17.tar.gr
# Socket -> http://search.cpm.org/CFMAM.authors/id/M/MO/NOMEMAT/IO-Socket-INET6-2.51.tar.gr
# INET6 -> http://search.cpm.org/CFMAM.authors/id/M/MO/NOMEDAM/IO-Socket-INET6-2.51.tar.gr
# INET6 -> http://search.cpm.org/CFMAM.authors/id/M/MO/NOMEDAM/IO-Socket-INET6-2.51.tar.gr
# INET6 -> http://search.cpm.org/CFMAM.authors/id/M/MO/NOMEDAM/IO-Socket-INET6-2.51.tar.gr
# INET6 -> http://search.cpm.org/CFMAM.authors/id/M/MO/NOMEDAM/IO-Socket-INET6-2.51.tar.gr
# IN each directory to comment the final in modules. You need to
# INSTALL Socket@ INET6.
# In the command of the proper of the property of the propert
                                                                                                                                                                                                 # You should have received a copy of the GRU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       # Are we asking for the man page? If so, stop here and go there. if (\operatorname{soptions}\{m\}) (
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# WIRCHANABILITY OF FITNESS FOR A PARTICULAR PURPOSE. See the
# WIN General Public License for more details.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      my %options;
getopts('m:t:p:s:x:',\%options) || usage();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  # Do we have a Local Source Port?

If (not Soptionsis)) {
    print 'n', '
    usage();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      # Default to IPv4 or if specified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     # Do we have a Target Port?

if (not Soptions(p)) {
    print "\n'r, |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if now a naw a darget IP?

if now a naw a darget IP?

print "\n", | |

print "\n", |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 use warnings;
use strict;
use Getopt::Std;
use IO::Socket::INET;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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```

grass.pl is a program intended to assist in troubleshooting network related issues specifically with STM and Source-bort troubles. You can was prass.pl or either ear as a 'door-lam' for a STM connection by starting it first or use it once an established domestion is already in place and you want to cause an effect from the same source port as the previous connection. be either SYNOPSIS grass.pl -t [IP_to_connect_to] -p [DST_Port] -s [SRC_Port] (-x [4][6]) (-man) -t Specifies the Target IP address. This value *MUST* be present and can IPv4 (Default) or IPv6 (See -x below). -p Specifies the Target Port. This value *MUST* be present. grass.pl - A small Perl SYN program G.R.A.S.S. Mini-Man Page die << EOM; DESCRIPTION SNOTTEO JAME

interface

-x Select IPv4 (Default or -x4) or IPv6 (-x6). For IPv6 to work, you *MUST* have the Socket6 and IO::Socket::INET6 Perl Modules installed as well as a capable IPv6-enabled

-s Specifies the Source Port. This value *MUST* be present.

If a successful TCP connection is made, the IO::Socket::INET(6) will return a GLOB from the connection. In the event the connection is unsuccessful, an error message will be printed. If one of the three WHSP* options are missing, an error message will be printed and will tell you which one you are missing.

EXAME

Open port 110 on fec0:cOff:ee01::1 from a source port of 5678: ./grass.pl -t fec0:cOff:ee01::1 -p 110 -s 5678 -x 6 Jogen port 80 on 10.11.12.13 from a source port of 31377:
./grass.pl -t 10.11.12.13 -p 80 -s 31337

NOTES

As long as you have access to Perl, this program has the potential to be a complete SYN DoS propriem it is "STRONGLY" suggested that you use this program with restraint as basic. "While looping can change the program from "Happy Troubleshooting Tool! to "All Script O' Death", Just as a hammer can be a tool or a weapon. I designed this to be a tool and not a weapon. If this program ends up Decling your network, take action against the person who did this and not against me.

Using the -m(sm) switch... You can type anything after the letter "m" and you will get this min-man page. Using -m by treaff does nothing though.

Yeas, even: "¿grass.pl -man am I drunk SDOS

EOM



I work for a well known university that recently stopped using Social Security Numbers for Instead, we now use a unique nine digit Social-like number. However, the first three digits are identification purposes because of security risks. all the same: 555. So it's more like a six digit by chill p3ngu1n

number. Each student is given this school ID number when they register for classes the first time. They are issued incrementally, the first number (555-000-001) going to the person who has been at the university the longest that still owes us money.

on file, in which case it becomes the last six digits of your school ID. Now, the odds of you just your Social as your password, which can be randomly finding someone who has no Social on fice you can fill out these neat things called Confidentiality Request Forms. These bad boys keep anyone but a few real-high-up's from looking at like phone numbers, addresses, and Social Security Numbers disappear. They don't actually disappear, but access to them is highly limited. They number as the username and the last six digits of changed at any time. Unless you have no Social file are pretty slim; I've only run into a handful of them myself. But if you go to the Registrar's Ofthings on your account. It makes certain things are usually used in cases of stalkers or parents who are trying to steal the student's residual checks.

have a Social on file and manually change it to that. Either way, just give them your 555 number just not letting you in or whatever. I'm not sure how their office works because I've never been there, but either they just have a RESET PASS-WORD button or they actually check to see if you and magically the password is the last six digits of it because your Social is not accessible to them. number of the person which is all that passes as complain that you lost your password, or that it's So here's the trick: now you have the 555 proof-of-identity nowadays. So go to the Registrar's Office and fill out one of those Confidentiality forms. Next, call up CatNet support and

information, including phone numbers, local and permanent addresses, their Financial Aid, plus the ability to charge books straight onto the ac-Number. And what can you do with their Social Security Number, phone number, and permanent draw them from the university altogether. But most importantly, you get their Social Security address? Apply for a credit card! I fail to see how Now you have unfettered access to all of their count, add or drop their classes, or even withthis system is more secure, or secure at all.

very soon. Since most people don't know or understand how the system works, they fail to university I would hope that there were people looking out for me, which is the point here. Hopefully, someone else will show this to someone higher up and this problem will be corrected Seriously kids, don't try this at home. Identity cause it's such a large hole and the administrators here refuse to fix it. If I were attending this theft is a major crime. I only wrote about this beunderstand how much they are at risk.

Knowledge is Power.

When bringing this up, I was told to "just be careful." I also mentioned that even if we're not using Socials locally (in our office), people still have to use them in order to enroll in our payment plans and for Financial Aid. So I was unclear as to why Months before going live with the new system, I had several concerns with it. First off, Socials were more random, so if digits were anyone up. However, with an incremented number system, 555-276-012 and 555-267-012 both bring people up. So the odds of posting payments to the wrong account are increased dramatically. we needed a full on change in the system. They told me that this decreased the probability of stolen identities. transposed there was little chance it would pull

More Problems

has changed. Really, the only place you are required to use your new ID number is our online site, CatNet, where you can register for classes, look up your schedule, review which financial Nid you've been awarded, change your local and permanent addresses, and so on. In fact, if someone Since the program has gone live, not much changed. Really, the only place you are rewere to walk into our offices and not know their new ID numbers, we've been instructed to look

them up by name.

A few months ago, I realized that there was a huge security issue in our new system and reported it immediately. Nothing changed and the hole remained. I reported it a few more times, but all I got was a response that basically said to stop sending them letters and that they weren't happen because people don't understand the system and that they would worry about it if it ever going to fix it for whatever reason. I think the basic consensus was that it would probably never

Ironic

2. much more vulnerable to identity theft than the It's almost funny how this new system original one.

numbers will pull someone up. You can get a lot of information this way: how much they owe, their addresses, what classes they're in, etc., Since the numbers are incremented, walking up to an office and saying 555 before six random mostly unimportant stuff.

and give them someone's name (let's say your roommate's). They will look you up by name, and then you can ask some BS question like "Do! still owe anything?" In any case, before you leave, ask them for your ID number because you "keep forgetting it but you want to remember it real bad." Hell, they'll even write it down for you. Now But let's say you walk up to the Billings Office

comes the fun part. CatNet is, by default, set up to use your ID Isummer 2005

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Mavher Jreating

by windwaker

Server protocol information is seldom entered by a user manually, and just about always automated by the program that they're using. The most that we would see this happen is in IRC (Internet Relay Chat), where you are almost encouraged to enter the server protocol in manually. But how many people have actually messed with, or even seen AOL's Instant Messenger service's command protocol, or that of MSN, Yahoo! Mes-

A0L's servers is at http://cvs.sourceforge.net

/viewcvs.py/gaim/gaim/doc/Attic/PR0

T0C0L?rev=1.4. senger, or even Jabber? The information about AOL's AIM service is probably the least abused information released about any messenger service. The actual released information about the information that is sent to

one would really take the time to enter any of this manually. But a programmer, after a second abusing AOL's service, allowing them to gain in-formation about other users, forcing them to sign off, or even gaining more sensitive informa-tion from AOL because they know the lingo. This may not seem useful at first glance, as no or two, would inevitably comprehend the true potential that information such as this gives them:

Think about this from a programming perspective. I have written a program in PHP (yes, the server based parsing language), that logs in and talks to me when I sign on and talk to it, repeating everything I say, followed by my screen-name. It isn't hard to write a program, in any ing the protocol by just sending information to their server (in PHP, I used fsockopen to connect language (C/++, PHP, Perl, even VB) that will allow you to sign onto AIM with a screenname, usand fwrite to send information through the connection; much easier than you would expect).

Now that you have a program/script that will name won't allow you to wreak utter havoc on the jock that dunked your head in a toilet in high log onto AOL's servers, you know that one screenschool. Solution: create more, but follow their names with numbers. Each time you create one number. For instance, 120r2", ... "thepwnz0r276". "thepwnz0r2".

After spending much time creating many screennames, you probably know what you have to do: loop through them. Take the script you wrote to connect to AIM, yet instead of entering the values manually, enter "thepwnz0r" followed by a variable, the variable being the amount of times the script has looped. This would look

Something like this.

for (i = 11, 4 = 276;1++){

// connect putting the value of i

mediter "thepwmzor", logging into "the

mymzor" all the way through 'thepwmzor"

z 76°.

You now have a script that will log into 276 screennames.

disabling him from doing anything. One problem: you don't want to have to change the code each time and recomplifyerupload it. I don't blame you. This all gets annoying after a while and the attack isn't as graceful. Solution: write code allowed. lly, writing in the script to spam iOcK4LiFE46234424235" with random messages each time each screenname signs on, virtually owing you to tell "thepwnz0r1" a simple line of text, such as "spam jocK4LfE46234424235" which would trigger an IF statement, such as: Of course, now, you could enter code manu-

if (substr(message, 0, 3) == "spam"){
 message = explode(message, " ");
 sendmessage("thepwnz0r", i + 1", ■message[0].message[1]); spam(message[1]);

would send a message to the next screenname, confinuing the circle. You would be able to am someone simply by opening the executable/script and AIM, then sending an instant spam() would be a function that sends messages to the value given to it and sendmessage() message to thepwnz0r1 saying "spam [screen

There is almost no defense to a script like this, except for the victim getting off of AIM, which they would inevitably have to do. The potential of this TOC protocol is amazing; the amount of not only AIM abuse, but new functionality and ease of use in third party programs

that can come from this is astonishing.
Plus, there's nothing that AOL can do about it.

Bavesdropping



book G3. In the process of loading software onto it, I installed AOL Instant Messenger. I'm an IM addict... I have huge buddy lists, it's my primary something odd when I started it up on the Mac. Unlike Yahoo Messenger, it left me logged in on I recently came into possession of a Powernunication. I noticed my Windows box. This doesn't seem right means of real time com

you can eavesdrop on half the conversation. It's only the helf your target receives, not what they send, but I've worked in military intelligence you can reconstruct a large portion of the missing data if you read and analyze carefully. You won't get the exact wording, but you will get the information itself. Windows box. This doesn't seem rights

Further experimentation showed that if I remessage shows up on both computers. That seems really wrong. While it requires your login credentials and local network access to exploit, ceive a message when logged in on both,

this. A creative hacker could probably find more, and there are certainly variations on these basic attacks. In all of these scenarios, all computers logged in are presenting the same IP to the AIM I've developed three plans on how to exploit servers, i.e., via a home router of some sort. To my knowledge, this will not work outside of a single external IP situation. I pray to God it won't.

First scenario is the nosy roommate. In this you. They guess your password, install a keylog-ger, brute force it, social engineer it "my aim died and I need to get ahold of someone," or some-thing of the sort. Then they can watch half of the scenario, someone you live with decides to spy on

network that you aren't watching as carefully or using as much. They proceed to 0wn that computer via whatever means they have available. This will let them remotely monitor half the conversation, and likely won't get noticed as you aren't beaning this system secured, or Second scenario is what I call the "weakest link." An attacker finds a computer on your home

using/scanning it as often as you do your main system.

Third, and potentially most dangerous, is selves across the street, and proceeds to watch as the wardriving attack. The attacker secures vour login credentials however they can, parks themin the nosy roommate situation. This is the hardest to detect unless you are watching your access

First, follow good password practices. Hard to To protect against this is simple.

hard to get your password and, unless you've really pissed someone off, they will give up on tered into the AIM software or website to access AIM services, and should not be stored. Make it guess, numbers and letters, caps and lowercase, and never tell it to anyone. It should only be enyou and find an easier target.

Second, your network is only as secure as the least secure computer. Keep all systems that are attached to the network, no matter how insignificant, fully patched and regularly scanned. An attacker only needs to compromise one system to gain access.

Watch your WAP's access logs regularly as well to determine if there are any attempts (especially successful ones) to access the network without Third, if you use a wireless network, secure it. Don't set it up where anyone with a wireless card can DHCP and access the net from your WAP. your permission.

AOL could fix this easily. They just have to fix logged out of your current session if you log in again. It shouldn't require you to be behind a different IP to log you out - any login should end your current session immediately. While that AIM so that, like Yahoo Messenger, you get won't prevent someone from accessing your account, it will at least make it much harder to so without being noticed.

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by Tokachu

If you've ever been on an IRC server, you've probably received an attempted connection to port 113, and probably gotten a "please install identd" soon afterwards. For those who are not familiar with Internet Relay Chat, identd is a network service that runs on port 113 to identify which user is on which TCP connection. Here's how a typical session would work:

- Client connects to the ident server on port 113. * Client gives the server the remote port used for connecting and the local port connected to.
- An example of a session might look like this:
 ** Client sends the text "1025, 666" where 1025 is the port on the server (the ident server) and 6667 is the port on the client (the one making * Server responds with a username.

myusername", where "myusername" is the sup-* Server sends "6667, 1025 : USERID: UNIX the ident request).

protocol specifications were released, people realized how much of a joke identd was. Subsequently, nobody uses it for its original purpose. networks to automatically allow people to login from their machines. Soon after the original The purpose for such a protocol was to provide a way for machines on trustworthy multiuser posed login.

While identd is not used in any serious manner, it has found a use on IRC servers. For the longest time, IRC operators were concerned that proxies available were not breached systems, but poorly configured machines. As the abusers had ing behind open proxies. Nearly all the open no real access to those systems beyond using ing that every client run identd on their machine nect to the client's machine on port 113, they would assume the machine was an open proxy users would try to abuse their systems while hidthem as proxies, many IRC servers began requirto "identify" them. If the IRC server couldn't con-Enter IRC

gan writing their own proxy software, including Not too long ago computer virus writers beidentd servers with them so they could both con and would terminate the connection from there.

nect to IRC channels anonymously as well as to allow the victims' computers, or "zombies," to allow the victims' computers, or "zombies," to connect to a hidden IRC channel for mass remote controlling of machines. Nowadays it's practically useless to rely on identd for any kind of authentication whatsoever.

Patrolling Your Network

If you're as lucky as I am, you've gotten yourself a nice job looking after a network, or perhaps you've got a small LAN set up at home. Either way, if you are the administrator of any network you've got full control of every machine and run Windows Update religiously, odds are you've had connecting Windows XP computers together, you know how terrible things can get and, unless to take a machine offline at least once to "clean it up."

have the time to look at each and every one of those computers and make sure none of them work, one with at least a few hundred computers, nearly all of which run Windows XP. You don't But let's say that you run a very large net-

have been "zombified." So what can you do?

Scanning the Network
First, download the latest version of NMap (http://insecure.org/nmap). Compile it and run nmap -sT -p 113 -P0 -v -T 4 -oG ident.txt it with the following options:

Here's a breakdown of the command-line ₩192.168.1.0/24

options:

-sr - Scan using full TCP connections.

-р 113 - Specifies to only scan port 113 (identd). -ро - Don't send out pings (most software firewalls block pings anyway)

-v - Be verbose (print out open ports as they are 4 - Very fast timing, no delay between

file 192.168.1.0/24 - Scan every host in that sub--og ident.txt - Log everything in the "ident.txt". connections

net. This is the only option you'll have to change.
Once you've scanned your network, go through the file "ident_txt" and find each line that has the word "open" in it. In UNIX, type that has the word "open" in it.

"grep open ident.txt" at a command line; in Windows, type "FIND open IDENT.TXT" at the

Testing the Open Machines

to-date antivirus software, even if the virus has

shellcode that utilizes the WinINet library. In other words, the code can easily be found by up-

> Although identify should not be running full-time on a legitimate IRC client, there is still that possibility. Here are a few "acid tests" that can be run on the server:

Null Test - Send a completely blank query. This should either return nothing or return the error "UNKNOWN-ERROR". Zero Test - Send a query with both the client

port and server port set to 0 (zero). This should return the error "INVALID-PORT".

Private Port Test - Send a query with the

client port set to 113 and a random server port. It should return an error with either "HIDDEN-USER".

administrator responsible for the IRC server's network. If you're more daring, you could take

over the "bot network" and shut it down yourself, although this could result in getting an "abuse'

Multiple-User Test - Send a valid query twice in a row. The two usernames returned should match.

In any or the servers found does not pass three or all of these tests, it's more than likely been infected with a virus and is possibly receiving commands from a remote RK server to either relay junk e-mail, flood websites with garbage, or infect more machines. Luckly most of the ex-ploits used for them to self-propagate have concept exploit posted! Based on that, you'll probably find yourself dealing with FTP commands piped to a command line, rather than patches against them, and probably use the same shellcode that came with the original proof-of-

server rarely establish encrypted connections. If trolling all the machines. From there you can send a standard "abuse" e-mail to the network While the executable itself might be encrypted, worms that connect to a central IRC fected machines you found, you can easily find where the server is connecting, and possibly the been reconfigured and recompiled for another you can sniff the network traffic on any of the inpasswords used by the script kiddie who is con-Peeking into the Virus person to control.

Conclusion

e-mail yourself!

I suppose the only thing I could tell you to And, of course, it doesn't hurt to scan yourself - it's better than someone from the outside doing keep the Windows machines on your network secure would be to treat them as if they were your own UNIX boxes: don't give your clients administrative access, keep all of them updated, and filter the ports that are known to be exploited, such as the ones for WINS, DCOM, and NetBIOS. it for you!

HACKING ENCRYPTED HTM

edward@database-expert.com by Edward Stoever

rious eyes or to prevent you from directly downloading inages or flash movies from a website. There are even better reasons for using encrypted html that don't involve encrypting the to decrypt the html that has been encrypted by three popular software programs. There are a This article will show you a hack you can use number of reasons why a webmaster would want to encrypt his or her html markup. The most obvious reason is to protect the markup from your cuentire page. I will explain these shortly.

In this article, I am going to show you how to decrypt nearly any html that is encrypted with javascript. Then, at the end of this article, I will show you a couple of websites that create encrypted html for free. In the event that you ever

need to use encrypted html, you will know its strengths and its inherent weakness, and you will know where on the web to get it done gratis!

For our first challenge, let's open this website with a browser: http://www.protware.com. To see link. In the center of the next page is a link "Click here to open the encrypted demo page." Click that and a new window opens. In this new window, right-clicking has been disabled. So, view the source through the menu: view, page source. Now you see a huge javascript but no recognizable html. We want a source that we can read and protware in action, click the "Demonstration"

To hack this source, you will need to edit the html markup. You can use any html editor, even notepad or gedit. Select the entire page source, copy it, then paste it into your editor. At the top understand

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of the page, immediately after the [script] opening tag, type in:

document.write('[textarea cols="80" Then, at the bottom of the page, immediately ▼rows="40" name="whatever"]'); after the [/script] closing tag, type in:

and other objects are readable. If you want to view that in a browser, select that text and save it. The javascript at the top will prevent you from viewing it. Just cut it out of the text and the page will view just fine. That was just too easy! Now save the page and open it in a browser or click the browse tab in your html editor if you have one. You will see a big text area and inside of it, you will see the html that you can recognize. All the paths and filenames of the images

the javascript output in a textarea. As we move to the next examples, you will see javascripts that encrypt javascripts. You will be able to wrap any nique as "wrapping" because we are surrounding of these in a textarea to see the underlying From this point on, I will refer to this techdecrypted code.

The following examples use javascripts that open like this:

The html comment tag [!-- requires that we [SCRIPT LANGUAGE="JavaScript"][!--

add a carriage return before we open the wrapdocument.write('[textarea cols="80" ping with

cows="40" name="whatever"]');
Our next challenge can be found here: ■rows="40" name="whatever"]

version, remove the wrapping so it will function. You can decrypt the source simply by wrapping http://www.antssoft.com/htmlprotector. In the middle of that page is a link: "Click here to view sample page protected by HTML Protector." In the sample page that opens, right-clicking has been disabled so view the source from the menu. Copy and paste the html text into your editor. Here you will see three javascripts. If you wrap the first one by itself, you will find that it hides another javascript. You have the option of replacing the encrypted javascript in your editor with the decrypted one in your browser. If you don't replace the encrypted version with the decrypted the final javascript.

"Strong" encryption scheme. A new page will open that will look just like the Google home-page. View the source through the browser's menu. At first, the source looks like it is empty, but that is just because of a bunch of added carriage returns. Scroll down! Copy the source and http://www.aevita.com/web/lock/samples.htm. This website has taken some extra steps to make their content harder to decode. Click the link for Finally, we get to our third challenge: -Page

paste it into an editor.

wrapping hack on the first one, we find that it is a javascript that just disables mouse clicking. a javascript that includes the text src="encrypt.js". Here is the tricky part. We need that bit of code to complete our job. Go back to the browser, and change the URL for the page to The source has four javascripts. If we use our Simply delete that first javascript. Next, look for

http://www.aevita.com/web/lock/samples/

The text we need either appears in the browser or can be saved as a text file depending on the browser you use. Copy all of the text from encrypt.js and paste into the text editor between [SCRIPT src="encrypt.js" type="text/ the script open and close tags as shown here: encrypt.js.

on that page do a wrapping hack. Now view the page in a browser and you will see the html Next, delete the text src="encrypt.js" out of the script open tag. Then, on the last javascript javascript"]paste it here![/SCRIPT] source you wanted to see.

The wrapping technique shown above can be used on nearly any javascript html encryption to view the true html markup.

reading the source of the page. In each of these cases, I only encrypt the small portion of the There are a couple of reasons I use encrypted html, neither of which is to prevent people from html markup that I want to hide.

The first reason I use encryption is to hide email addresses from spambots, programs that search the Internet hunting for email addresses to send spam to.

The second reason I use encryption is to hide [DIV] tags that I use to layer divisions in web pages. I use the [DIV] tags to conceal text from text available to search engines. Search engines know we can use [DIV] tags to do this, and can be crypting the [DIV] tags, a search engine will have a harder time eliminating the concealed text from programmed to eliminate text strings found in the user's eyes and at the same time make the divisions that are not visible to people. By enits search index. For an example of hiding [DIV] tags, visit my homepage: http://www.database-

My personal favorite way of encrypting text strings can be found here: http://www.guymal. ◆com/nospam_email_link.php. Guymal's utility ◆expert.com.

Another package for encrypting html markup for free can be found here: http://javascript. →about.com/library/blenc.htm. Happy decrypting

is easy to use, quick, and free.

by Big Bird Windows stores user information in all sorts

porary Internet files, configuration files) but there are other locations where information is show you how to gather information about users of places. Some of them you know (cookies, temstored that can be much more interesting. and settings they keep.

into safe mode) and there you can change the user's password. There are other ways to get in by copying profiles and such, but this is a little larger than the scope of this article. veloper named Nir Sofer. Although the programs created by Nir Sofer are free today, they may not be tomorrow. Nir Sofer's website is http://www. mirsoft.net/, Microsoft's website is http://www dows. One caveat however: you will need to be logged in as the user you intend to gather this information from. If you do not have access to the user's account, you may need to go though the process of getting into the Administrator account (by resetting the password). Also, on Windows XP home computers, the Administrator Please note, I will be describing utilities ■.microsoft.com. This article discusses details about the "Protected Storage Manager" in Winaccount has an empty password (when booting found inside of Windows and from a software de-

Getting Various Passwords

age" service in Windows XP is required to save any passwords the user uses in Email, Messaging or Internet Explorer. It is on by default in Windows age location by running "regedit" and locating the following key (and subkeys): HKEY_CUR the following key (and subkeys): HKEY_CUR • RENT_USER\Software\Microsoft\Protected The Protected Storage Manager is a simply a location in the Windows Registry. The Protected crypted location. By default the "Protected Stor-XP. In the registry, you can find the Protect Stor-Storage is a feature of Windows that stores most, if not all, of the user's information in an en-

find much if you go snooping around. There are utilities to get access to this information but most of them require Perl or installation on the hidden or encrypted or both - so you won't likely Often this location in the registry is either local computer. Some other utilities of this Storage System Provider

com/wse/default.asp). But Protected Storage Pass View is the best and easiest to use. ture are Protected Storage Explorer (http://www. ➡forensicideas.com/), Cain & Abel (http://www. ◆oxid.it), and Secret Explorer (http://lastbit.

card number) and passwords saved. If you get only a user name for the one location, you may find user/password pairs for other sites. Often utility (by Nir Sofer) that I'll direct you to use is the Protected Storage Pass View. This utility ex-poses all of what is in the Protected Storage of (for the most part) seamless to the user. The first In this area you'll find user names and passwords that have been saved by Internet Explorer as well as a URL to the location where the password had been saved. Believe it or not, I have often seen bank URLs with the user name (bank people don't vary user names and passwords enough to keep you from guessing them. The function of saving user names and passwords is Windows

ogy (named AutoComplete) is great for gathering information about the user's interests, address, The Protected Storage Pass View utility shows recently typed in entries and search terms from Internet Explorer. This Internet Explorer technolphone number, and even in rare cases passwords. Other information you can gather from the - Outlook/Outlook Express user names and Protected Storage location:

passwords

- FTP user names and passwords opened with Instant Messenger Passwords MSN Explorer passwords ■Internet Explorer

Nir Sofer also made a small utility to gather user names and passwords for common Instant Messenger applications. The utility, MessenPass, supports the following applications: MSN Messenger

Windows Messenger (In Windows XP) ICQ Lite 4.x/2003 AOL Instant Messenger AOL Instant Messenger/Netscape 7 Yahoo Messenger

Miranda

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gram is at gathering information about messenger applications installed on the computer and/or passwords for various accounts. You would be surprised how useful this pro-

Email Passwords

name, hostname, and password information from these specific email applications. This utility, Mail PassView, shows user names and passwords Almost a redundant utility (when Protected Storage Pass View can show email passwords), Nir Sofer created a utility to gather specific user from the following programs:

Outlook Express

⇒accounts only) Microsoft Outlook 2002/2003 (POP3, IMAP, HTTP Microsoft Outlook 2000 (POP3 and SMTP

and SMTP accounts) IncrediMail

Group Mail Free

this while he/she was using Internet Explorer. Run the Protected Storage Pass View application and find the corresponding URL and user In one scenario you may be looking for the user's Hotmail user name and password. Since Hotmail is accessed through a web browser, there name/password values. In other cases, the user may save their MSN Messenger passwords when they use Messenger since the Messenger user is a really good chance the user might have saved Scenarios

gotten what you needed this way. Another way of getting the Hotmail password is if the user has set up his/her Hotmail email access through Outlook Express (and saved the password look or Outlook Express (and saved the password tion from the Protected Storage Pass View program or even Mail Pass View. and the password is ofte the user's Hotmail password. Run the Messen Pass utility and you'll have of course). In this case you may get this informaname is often the user's Hotmail email address

vices from another company who used to poorly support my new client. While looking through the machines using the above utilities, I came across word of the senior technician's email account on that company's server. A fittle more investgation and I found user names and passwords for their customers, credit card numbers, and all sorts of one machine that (apparently) one of the senior technicians in the old support company had been using. What I found in the Protected Storage Pass other information about that company's business. None of that information was used for bad based applications become more and more rich, the things you might find in the Windows Proing, just as users seem to be becoming more and more stupid. Make use of these utilities and In a real world scenario, I took over IT Ser-View utility was the URL, user name, and passreasons as that defeats the purpose. As webtected Storage become more and more interestprotect yourself!

receive. This article is aimed at being an introduction to using LWP to acquire data from the

going on when you start hacking away. You have two main methods of requesting data: get and toost. In both, you are asking the web server for a specific web page. If the page is stabic, the server just returns the content of the page. But if the page is dynamic, variables need to be passed to the server (sometimes by cookies) so it can dynamically generate the content. The difference between get and post lies in the way variables are passed to the server. With a get request the variables are encoded and passed through the query A brief introduction to the HTTP protocol will make it a little easier to understand what is really

values cannot be seen in the query string, but are sent to the server as content. The server side protween the post and get requests when you are trying to figure out what you need to tell a server and how you need to tell it in order to get data When you do a post request, the variables and gram can read its content over the STDIN. It is not important to understand all the ins and outs of the server side for our purposes. It is important, however, to understand the difference be-/www.somesite.com?var1=val1&var2=val2 http:/ back.

The first thing we need to do in order to start using LWP is set up our basic tools. Here is a code \$browser = LWP::UserAgent->new(); \$browser->agent("Mozilla/4.76[en]

(Win

■dows NT 5.0; U)");
The first line gives you access to LWP's box of tricks. The second line creates a new LWP browser which you will use to browse the web. The third trying to access the site. I have found that a lot of sites will deny access if you are not using a line is not absolutely necessary, but if the agent is not set then the HTTP_USER_AGENT environpopular browser, so it's best just to go ahead and mental variable will tell the server that LWP

g use the get and post methods. So let's look at a simple example that uses get to... get a web Now that you have a browser object, you set the agent.

To download Perl go to http://www.ac from http://www.CPAN.org. This article will not describe how to install this stuff. I think you can Perl, then I suggest you become familiar with it. by far one of the coolest languages you will ever learn, and can be used for almost every-thing. To download Perl go to http://www.ac tivestate.com, and download the LWP modules figure it out. It will also not go into great detail about how to extract the data from the pages you

just as easily be directly passed to the get method as a string, but the use of the URI object allows you to do some cool stuff. It breaks the URI into all of its individual parts (i.e., scheme,

The first line creates a URI object (note that

the "http://" is necessary).

■sponse->content;}
else{die "WTF? \$response->status line\n

if(\$response->is_success){print \$re

Surl = URI->new("http://www.google.com"
Sresponse = \$browser->get(\$url);

The actual URL could

userinfo, hostname, port, path, query) and its use is generally good practice. The is_success attribute represents just what you think; it is true

your local server via your favorite web browser. If the request fails, then the above program will print out \$fesponse->status_line, which contains the status returned by the server. tent returns a string containing the content of the page. If the command ./foo.cgi>google.html foo.cgi) is issued, then by opening the newly created file google.html in a web browser you will be looking at the google frontpage (minus the pics). If you run a local web server and run the script (assuming the file containing the code is called with the two steps. Just request the page from on success and false otherwise. \$response->confrom the server, then you don't have to bother

just as easy as getting a static page. For example to search for "2600" on google.com, you would use a URL like the following: Passing variables through the get request is \$ur1 = URI->new("http://www.google.com/ •search?q=2600"); Similarly:

"2600". If you want to get results 11-20, try this:
Surl = URL->new("tep://www.google.com/
w=search?q=56006start=10".)
For 21-30 you have start=20 and so on. It is query method. When the page is returned, you will have results 1-10 of the google search for The latter takes advantage of the URI objects Both examples accomplish the same thing. l->query("q=2600"); Surl

obvious by this example how easy it would be to the hyperlinks on each loop through all the pages of results. We could, page up to the first 100 results. Here is some exfor example, collect all ample code:

\$ur1->query("q=2600&start=".10*\$num); \$response= \$browser->qet(\$ur1); if(\$response->is_success){&Parse \$url = URI->new("http://www.google.com/ ⇒search"); foreach \$num (0..9){

else{die \$response->status_line;}

error then the ParsePrint 9 ≥. there

cally have two options. You can either program Data Vining with Perl by Luckycan

data from them for later use. The successes ple of how data mining can be profitable and education to understand and are probably not The idea of mining the web has been a popular topic of study since the first search engines grams to download web pages and then extract achieved by Google are probably the best examproductive. The founders of Google have done extensive research in the field of data mining and have all sorts of neat little tricks to make their search engine work as well as it does. The algorithms used by Google take advantage of mathematics that require more than a high school were designed. Data miners use specialized prosuitable for use in personal projects.

If you want to do some data mining, you basi-

be to use some quick and dirty method that would only take an hour of your time to perfect and would fit perfectly into your busy schedule of feeding receipt printer paper into the shredder at your own custom C program, complete with low cate with the HTTP protocol. The other way would level socket code and low level code to communiwork and looking at girls on the Internet.

copy-paste (I'm glad I spend my time in such a This article will give a brief introduction to the LWP modules for use with Perl. LWP allows you to program a quick and dirty data miner so you can, for example, grab 1200 drink recipes from some bartending site in only five minutes productive manner). If you are not familiar with instead of spending two hours clicking next-

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and will have to be written by us. This article is not going into detail about extracting the data, but one example should sum up the basic idea. ubroutine will parse out the data and print it to This is of course not a built in function sub ParsePrint{ STDOUT.

\$con = \$_[0];
while(\$con =~ /href=\"{0,1}(.*?)\
■ "{0,1}>/g){ print \$1."
\n";

want, such as the links to the pages we used to get our list in the first place. It is left as an exercise to the reader to figure out how to weed out powerful, but the one above is overly simplified and would not work in every situation. The above This subroutine takes one argument, which in regular expression to extract every href. Regular expressions can be really cool and extremely subroutine also outputs hyperlinks that we don't our case is a page of hypertext, and then uses the undesirables.

syntax difference between the post and get methods. The rest of the program would be func-If the example for google used a post instead of a get, then the only difference would be the tionally the same. Here is an example of post: \$response=\$browser->post(\$url,

start'=>'10' 'q'=>'2600'

The URI object is created the same as shown previously. The left values are names of variables

the right values are the values of the variables.

you want without them. If you request a website via your browser and get the site you expect and then do the same with LWP and do not, it is prob-LWP also supports the use of cookies. Most of my experience has shown that I don't need any cookies that are kept around for longer than the cookies for everything and you can't get the data need to do is tell your LWP browser to use a execution of the program. Some websites use ably some cookie that needs to be set. All you cookie jar.

use HTTP::Cookies; \$cookie_jar = HTTP::Cookies->new(); \$browser->cookie_jar(\$cookie_jar);

Now a server can set and receive cookies to

and from you, and hopefully you won't have any I hope this introduction was helpful. LWP has problems with them

complex projects. The examples above illustrate the extreme basics of accessing web pages with LWP. There is a lot of cool stuff you can do with LWP, and there is a book called *Perl and LWP* by Sean M. Burke that you can find it in. There is also, of course, support on the web. LWP gives for quick and simple data extraction projects. It also has a nice set of tools to use for larger, more you the ability to issue a lot of control over what is sent to the server and at the same time takes a nice set of tools that is good to be familiar with care of all the gory details so you don't have to. Good luck

to it. This key tells the server what size to return the picture as. Each picture has a unique key for each size, so you can't use the same key for all

arrImgPortraitIn = new Array(1);
arrImgLandscapeIn = new Array(1);

arrImgTn = new Array;

var arrimgPortraitIn = new Array(1);
var arrimgLandscapeTn = new Array(1);
var arrimgLandscape = new Array(1);
arrimgPortraitIn[0] = "http://us.f2.

the smaller size on the server and the original was only available through the owner's computer. But then I remembered that Yahoo offers printouts of any user photo. They would want to use the origi-nal quality image, chemorise people would not or-der prints online. Now I knew that the original was out there on the server, but I did not yet I first assumed that the file was compressed to know how to access it.

arrImqLandscapeTn[0] = "http://us.f2

wyahoofs.com/users/username/.tmp/rotate
w/2f7f/_hr_/picture.jpg?hioAcECBiF4124

. oz

arrImgPortrait[0] = "http://us.f2.

picture.jpg?phgAcECBNslttaZV";

■.yahoofs.com/users/username/

■picture.jpg?higAcECB6r3ho_3k";

wahoofs.com/users/username/.tmp/rotate
w/2f7f/_tn_/picture.jpg?phgAcECBA7JJ2_
whJ";

Yahoo now offers online printing, so you no longer have to order. You can print it onto photo paper using your PC! How Boy! Mw. to do this, you are either going to have crappy pictures or you will get access to the original files. Yep, you guessed it, you have access to the original files, but of course it is still not that easy! In order to get the original files, you will need to explore some of Yahoo's code. But I have done this for you s already (because I'm nice like that).

In order to get the full size image, go to the album and select the image you want. Click on "Print at Home" and proceed to the pop-up window where it will set you up for printing. View the source of this page and you will see something like this:

ġ.

[irrelevant code]

can be used for a lot of multimedia files on many other websites. The trick is figuring out the

(?hiqAcECB6r3ho_3k) is sent to the server and it

browser,

VOIIT ಧ

JR

[more irrelevant code]
The URL you want is labeled "var arrImqLandscape[0] =". Now when you copy and paste this returns the full sized image instead of the crappy compressed image Yahoo attempts to restrict you This trick is not only great in Yahoo. This

> = new Array; var arrimg

the Library Spying on

The following information is provided purely for research purposes and the author takes no responsibility for its use or misuse by readers. Library system The Los Angeles Public

(http://www.lapl.org) is comprised of 71 branches, acach of winds offers five Internet access to the public. Until recently one only needed to present some form of 10 (driver's license, library card, school ID) in order to sign up for either an hour or a half hour of net time. This sign up protected to proved too time consuming and contentious, so days in advance. All one needs is an active library card (i.e., one that has been used recently -old/in-active cards are dropped from the database after a year or so) and the zip code specified when the card was obtained. One can sign up for a maximum automated sign up procedure. Under the new system, a reservation for Internet time can be made from any Internet-connected computer up to three the administration is gradually implementing an automated sign up procedure. Under the new systwo hours of Internet time per day (assuming

one has only one library card).

the system friccups, and librarians need to be able to see a list of who is signed up for a particular computer on a given day, or to extend a person's lock of time if they experienced a problem, etc. which person will be at a certain computer at a certain branch on a certain day *in the future.* As far as time has passed; at least, it is not visible/accessible to librarians and clencal staff. It is certainly at a given moment, there is still some administrative overhead with the new system. Occasionally While this system has alleviated many of the who used to have to sign people up and adjudicate disputes between patrons about whose turn it was (Note that the system obviously stores data about I know this data is not retained once the appointed possible that a log is kept indefinitely, however.) headaches experienced by librarians and

manipulating the administrative module of the This brings us to the subject of this article: computer scheduling software. Sadly, this functionality is nothing more complex than a publicly

A YAHOO!

RESTRICTION DEFEATED

We have all done it at some time or another. No, it isn't illegal, sneaky, or even remotely 1337. We have downloaded pictures others have posted on the Internet. Now, once you finish commenting about how horrible that intro was, take a moment to read the contents of this article. by BreakDecks

The scenario is simple. Your friend sends you a link to their Yahoo page so you can look at their vacation photos! You visit their photo album and take a look. You like their pictures and want to take a closer look at them. So you right click and of the page it states that the picture's original save them to your computer. Now, on the bottom

2

size was 1200x1600, but your copy is only 480x600! You go back and realize that the best you're going to get with Yahoo's options is that crappy compressed image! Now, where's the sense in that? Obviously, 'Alahoo limits the download-able size of the files to save bandwidth. But how is that useful to you, the customer? Well, it's useful if you're a hacker, because now you can experiment with how this works.

patron (i.e., someone in El Sereno calls Northridge branch and asks them to send a copy of *The South Beach Diet* so a staffmember at Northridge grabs as ELSRNO 21, and tosses it on the truck). Since library staff are already accustomed to this system, it has been used to define the computer reservation system credentials for a particular branch. Staff at El Sereno branch would login as username = ELSTAFF, password = elsrno21. the book, inserts a slip indicating its destination system have evidently chosen to rely on the principle of "security through obscurity," as well as their rudimentary username/password conventions. This last is not entriely their fault; they have tried to construct username/password combinations which app: http://reserve.lapl.org/cgi-bin/libadmin.exe. Instead of restricting the IP range that can access ead of restricting the IP range that can access site, those responsible for maintaining the

branch numbers and abbreviations, a malicious person could login as staff of any branch and view/atter reservations at that branch. This could include printing a list of who is scheduled to use the Internet, deleting patrons' reservations, issuing remote workstation administration commands (such as logoff, shutdown, reboot) that would be inconvenient and/or disastrous for the person us-So what's the problem? Well, given a list of outstate userlanding passive to consistent, easy for staff to remember, and non-intuitive for the general public. With this in mind they have opted to use the following form: because = **sTaff* //**=first two letters of branch abbreviation password = **ac because **sTaff* //**=first two letters of the staff* //**=first two letters of the staff* //**=first letter abbreviation #*=branch number and six letter abbreviation fleen to the fact that each of the system's branches has its own two digit number and six letter abbreviation (see notes). For example, the Eli Seeno branch is number 21 and its abbreviation is ELSRNO. This number and abbreviation is unumber and abbreviation is used fifther approximation is unumber and abbreviation is unumber and abbreviation is used fifther approximation is unumber and abbreviation is unumanted and abbreviation is unumber and abbreviation is unumable an

ing the system), and much, much more. This configuration does not exactly inspire confidence.

Branch Numbers and Abbreviations, 4/21/05

| Branch Numbers
as of | (38) MRVSTA Mar Vista | (45) HTWAIN Mark Twain | (37) NOHLWD North Hollywood | (59) NRTHRG Northridge | (15) PALSDS Palisades | (53) PCOIMA Pacoima | (03) PIOKOR Pio Pico/Koreatown | (65) PLATT Platt | (39) PNORAM Panorama City | (22) PRNCHO Palms-Rancho Park | (67) PTRRAN Porter Ranch | (70) PUNION Pico Union | (55) PVISTA Playa Vista | (42) RBRTSN Robertson | (19) RLSTVN Robert L. Stevenson | (51) SHRMNO Sherman Oaks | (35) SNLNDT Sunland-Tujunga | |
|--|-----------------------------|---------------------------|-----------------------------|----------------------------|------------------------------|--------------------------|--------------------------------|----------------------|-----------------------------|-------------------------------|--------------------------|---------------------------|--------------------------------|----------------------------|---------------------------------|--------------------------|-----------------------------|--|
| s which are be- | (61) PAIRFX Fairfax Express | 48) FELIPE Felipe de Neve | (56) GRNHLS Granada Hills | (68) HARBOR Harbor-Gateway | 11) HOLYWD Goldwyn Hollywood | 33) HYDEPK Hyde Park | (91) ICYBKM Inner City | obile | (12) JCFRMT John C. Fremont | (17) JFRSON Jefferson | 34) JNNUIR John Muir | 07) JSERRA Junipero Serra | 62) LKVIEW Lake View Terrace | 02) LCNHTS Lincoln Reights | 36) LFELIZ LOS Feliz | (64) LTOKYO Little Tokyo | (66) MIDVAL Mid-Valley | |
| books
anch t | FAIRFX | FELIPE | GRNHLS | HARBOR | HOLYWD | HYDEPK | ICYBKN | ₩ Bookmobile | JUERNI | JFRSON | JUNUIR | JSERRA | LKVIEW | LCNHTS | LPELIZ | LTOKYO | MIDVAL | |
| into
er bra | (61) | (48) | (26) | (89) | (11) | (33) | (16) | | (15) | (17) | (34) | (0) | Ŭ | (05) | (36) | (99) | (99) | |
| on routing slips inserted into books which are being transferred to another branch to be used by a | (26) ANGMSA Angeles Mesa | Ascot | 44) ATWATR Atwater Village | (05) AYOSCO Arroyo Seco | (46) BLDHLS Baldwin Hills | BNFRNK Benjamin Franklin | (16) BRNTWD Brentwood | (20) CAHUNG Cahuenga | (24) CNGOPK Canoga Park | (60) CTSWRT Chatsworth | (63) CWTOWN Chinatown | (28) CYPPRK Cypress Park | 31) DURANT Will & Ariel Durant | 32) EAGLRK Eagle Rock | 08) ECHOPK Echo Park | (69) EDEN Edendale | (21) ELSRNO El Sereno | |
| routir | ANGHSA | 30) ASCOTT Ascot | ATWATE | AYOSCO | BLDHLS | BNPRNK | BRNTWD | CABUNG | CNGOPK | CTSWRT | CWTOWN | CYPPRK | DURANT | EAGLRK | ECHOPK | EDEN E | ELSRNO | |
| on
in | (26) | (30) | (44) | (02) | (46) | (0) | (16) | (20) | (24) | (09) | (63) | (28) | (31) | (35) | (08) | (69) | (21) | |

(%) STRAME OF MAINTY (%) CONTROL OF MAINTY (%) WALED OF MAINTY (%) WALLY WERE WALLANGED (%) WALLY WALLY WALLANGED (%) WALLY WALLY WALLANGED (%) WALLY WALLANGED (%) WALLY WALLANGED (%) WALLY WALLY WALLANGED (%) WALLANGED (%) WALLY WALLANGED (%) WALLY WALLANGED (%) WALLY WALLANGED (%) WALLANGED (%) WALLY WALLANGED (%) WALLY WALLANGED (%) WALLANGED (%) WALLY WALLANGED (%) WALLANGED (%) WALLY WALLANGED (%) WA ParadísePoker.com (39) SPEDRO San Pedro (25) STUDIO Studio City (18) MLABAR Malabar (49) MMRIAL Memorial

ELSRNO El Sereno ENCTAR Encino-Tarzana EXPOPK Exposition Park

Blackjack Cracked

¥

have a ten in the hole. When they don't have the blackjack, the insurance prompt comes up immediately." I shook my head in disbelief and quickly started formulating how much money I could transfer from my other poker accounts into my makes the game beatable or not, but every time the dealer has an Ace showing, it takes them an extra long time to ask me for insurance when they there was an exploitable bug. "I don't know if this Paradise account. I knew that this would be a huge money maker if it were true. players - even skilled card counters. Internet casi-nos usually deal from an eight deck shoe (the more decks, the worse the advantage for the player) and they shuffle after every hand. This makes card counting impossible and renders the game unbeatable. My brother insisted that the game was good because he was fairly certain that

to their software so players could "...enjoy a few hands of blackjack as [they're] playing poker!" A few days later, my brother called me to tell me about it. I immediately dismissed the game as being a losing venture. Internet casinos do not typically offer favorable conditions for blackjack

In March, ParadisePoker.com added blackjack

y JackAceHole

The Edge

offers when the dealer has an Ace as his initial up card. If you take the insurance bet and the dealer The insurance bet is a side bet that the casino

(You will win \$100 on the insurance bet but lose \$100 on the initial bet.) It doesn't sound like much, but you will essentially have \$100 more half of one bet. So if you initially bet \$100, you are given the opportunity to prevent yourself from If you take the insurance bet and the dealer does not have a ten-valued card in the hole, you lose losing \$100 if the dealer has a winning blackjack than if you didn't know about the exploit.

user in your unit know about use chouse. Given the rules of the game, the house edge was 0.56 percent, assuming that you play perfect Basic Strategy! Basic Strategy is the best way to play your hand when all you know is what you have play your hand when all you know is what you have has an Ace exposed, Basic Strategy tells you that you should never take insurance. It is an unprofitable bet in the long run.

The dealer will have an Ace as his up card ap-

proximately once every 13 hands. Four out of 13 times, the dealer will also have a 10 in the hole. This means that you would get to exploit this bug ploit, you would expect to lose 56 cents for every \$100 bet. So with the exploit, this translates to a 1.778 percent player advantage (or \$1.78 for was \$300 per hand. Playing quickly, a person can play four hands per minute (240 hands per hour). This means that this exploit was worth over \$1280 per hour for the well funded player (\$300 x 240 hands/hour x 0.01778 edge)! approximately four times every 169 hands $(1/13 \times 4/13)$. This translates to a 2.366 percent more favorable situation for the player. Without the exvarable situation every \$100 bet) over the house without card counting. The table limit for the Internet game

I logged into Paradise Poker and started playing blackjack. I was betting ten cents per hand (the table minimum) until I confirmed the bug. surance prompt to show up. When he didn't have the ten't kould come up immediately. After mak-ing perfect insurance bets eight out of eight times, I decided my brother was right. I got down Every time the dealer had a ten in the hole, I would have to wait one or two seconds for the into business and started making \$20 bets. As my bankroll grew, so did my bet size. The Attack

Pretty soon, my \$400 turned into \$800. \$800 turned into \$2000. \$2000 turned into well over in the morning), check in at work, and see whether my actions triggered any red flags in Par-\$6000 and there was no sign of stopping! I finally stopped after seven hours because my eyes were shot and I just couldn't stay awake anymore. I decided to take a 12 hour break to sleep (it was four adise Poker's monitoring system

The End of the Line

The next morning I went to work and told my boss that I was going to take a few days off. I made over one month's salary in less than seven

-Summer 2005.

Magazine.

-2600

work get in my way. While I was there, I got another call from my brother. "T've been playing for about an hour and it looks like they fixed the bug." I rushed home in disbelief. After a few minutes, I confirmed my brother's bad news. I tried to find other exploits for several more hours, but my efforts were fruitless.

withdrew the majority of my winnings from my account. I was afraid that they might think I was cheating, so I wanted to make sure the money was out of their system before they froze my account. Technically, neither my brother nor I did anything wrong. We didn't decrypt network packets and we didn't hack their servers. We were just very observant and relied on nothing but our sense of existed, After I was sure the bug no longer

to determine how far to push the envelope. An opportunity like this only comes once every few years. The flaw was very noticeable and I was suritoring checks in place when someone is winning big. It is impossible to know what these thresholds are without working for the company. In the U.S., to stop a little shy of this limit in hopes of staying under Paradise's radar. Apparently, I did not mansix days earlier). I am sure that all casinos (both Internet and brick and mortar casinos) have moncasinos are required to fill out a Cash Transaction Report (CTR) if a player makes more than \$10,000 When finding an exploit like this, it is difficult prised to see it up for as long as it was (I assume that it was up since the blackjack feature launched in cash transactions in a 24 hour period. Even though Paradise Poker is not U.S. based, I was not sure whether they would issue the CTR. I decided age to stay in the clear.

tent in winning a few hundred dollars a day. It is possible that I could have won more by stretching out my winnings over time instead of going for the throat, but I highly doubt it. This bug was just too I know that some people will be upset with my there who knew about the exploit but were coneasy to stumble across and I knew that they would fix it in a few days for one reason or another. I feel actions. There were probably a few people out I chose the path that maximized my winnings and I am more than happy with the results. **The Links**

http://www.paradisepoker.com/blackjack.html http://www.paradisepoker.com/news.html Paradise Poker Blackjack Rules Wizard of Odds: Basic Strategy Paradise Poker News

Wizard of Odds: House Advantage Calculator http://www.wizardofodds.com/blackjack/ http://www.wizardofodds.com/blackjack ◆house-edge-calculator.html

-Page

In Search Of

I was just recently in my local Borders shopping around when I noticed 2600. It was in the very front of the magazine shelf and I had never noticed it. I asked one of the clerks and he said that they had just started carrying it. I was astonished that in my little city of Logen, Organ that almost every single bookstore carried your magazine. Thank you so much for the publication. Love *Off The Hook* is When I was reading some of your issues, it surprised me that so many people could not find places to buy 2600. and Off The Wall too.

Thanks for looking out for us.

Cohen

point: Borders. For the past year or so, they have tried to put your issues alongside the other computer/technology magazines, but they often get covered, misplaced, etc. I just picked up an issue of 2600 at my usual purchase due to their size. Dear 2600:

they have actually attached a small metal magazine holder to the wooden racks apparently exclusively reserved for \$2600! It is very visible and no more searching behind other magazines to find the latest issue. Congratulations: last time that was surprised and happy to see this It should be so in all stores.

Dave

Dear 2600:

I must start out by first thanking you profusely for the

excellent magazine you put out four times a year. Now, looking at the last issue I see that a few people wrote monplaining that Insert Name of Big Corporate Bookstore) has been hidring your magazine in obscure places. I would just like to make note that Chapters in Victoria, B.C. does exactly the opposite. When one walks into the "Techsmes nology" magazine section of their store, 2600 is strategi cally positioned to be the first magazine you see!

Victoria, British Columbia, Canada

We think this is a trend based on customer feedback. And again, a big thanks to our readers for helping to make such things possible.

Dear 2600:

Love the mag. Just wanted to reply to a letter in 21:4 saying that 2600's nonger available in Canada. It is definitely still available in Canada. I live in B.C. and I just proked up my copy of 2600'at Chapters here in Vancouver. I'm waiting for the day when the Canadian government starts playing Big Brother on the same level as the U.S. and then I'm moving to Norway or something.

Thanks for the great literature.

32

l0gic

Who is the man in the photo? What subway stop is this at? I think this man is following me!

Dear 2600:

Aurature It might be wise for some people to avoid the covers

Dear 2600:

altogether.

house at power to the IV of its own accord. Normally I book cat power to the IV of its own accord. Normally I would furthink twice about this but something straing was agoing on when I drecked the box. The LID display was countring down in Hex. something I've never encountreed before. Its the standard Scientific Atlanta Explorer 3100 model that Charter gives to its cable subscribers in my A strange thing just happened. I heard my TV shut off in the next room but I'm the only person here at the moment. I walked in to investigate and it appears my cable area.

Have you ever heard of anything like this? What could it possibly mean? Occasionally cable boxes reboot for one reason or an-other. This unoubtedly is what happened in this case, You wouldn't have noticed it if you hadn't heard your YU turn off. And we'll betthe reason that happened was because you have your VP plugged into the power outlet on the hack of your cable box. So when it cuts power, your TV is also turned off. Cable reboots can happen every few days or every few months depending on a variety of factors.

I'm just one lame kid from Serbia who wants to learn all of the techniques. I know a lot about hacker history, LOD, MOD, Kevin Mitnick, etc. Please help me to learn how to become an elite one day.

address.

tigating on the net. Its not about doing things the way everyone else does. It's not about one particular form of technology or a series of steps. Rather, it's a step of mind that you can apply to almost anything in your life. It invokes questioning, experimenting, presistence, thinking outside the box, and, above all, avoiding those people who latch onto the hacker community to be trendy. These are things you must develop within yourself; there are no magic answers to memorize. Once you have hacker mentality which comes quite naturally to many in the hacker world), you can then apply it to whatever you already have an interest in and begin to break new ground, Good luck, The first thing to learn is never to use the "word" elite as a noun. In fact, don't even use it as an adjective. It's radically lame. If you're really interested in learning, there is much you can ingest through these pages and by inves-

Great magazine and forum for information. Please keep up the fantastic work. But I want a virus. A nasty virus. And I want to send it to "overprice scammers" that Dear 2600:

-2600 Magazine-

they've taken possession (which you will have to repay to the bank when they tell you the check wasn't any good). I offer you more money in the form of a "certified check" (bogus) for an advertised item than you advertised it for, request that you wire them the overpayment after want the virus to activate when they open my email to them. Any suggestions, thoughts?

The real secret is to not get yourself into a position where all you have is an email address of someone who's ripped you'off. Take reasonable precautions and verify that you're insured in case they somehow manage to defeat fyou're insured in case they somehow manage to defeat those. If this was a television show we'd advise you to send a virus that would target this specific person's machine. Bet you access to all of his incriminating flies, then proceed to his bank account and allow you to transfer the of money back into your account. You would then balbe to leave a picture of yourself smiling on his monitor so that the knew who not to measy with in the fulue. But since u we're stuck here in reality, all we can suggest is that you. I recognize the danger signs of fraudsters and take adequate precautions. Insist that your banks and credit card companies do the same. If they don't, tell us and we'll Gary B. Ticked happily expose them to the world until they get it right.

Dear 2600:

Dear 2600:

Every issue has pictures of phones on the back cover and was curious as to how to submit them. If the general public sends in pictures, then where do they send them to? Thank you very much.

first off, we've moved the foreign payphone photos to the inside front and back covers. You can send photos di-rectly to our postal address at 2600, DBR 999, Mitchle Is-land, NY 11953 USA or email them to payphones ■ @2600.com. If you choose the latter, be sure to use high quality settings on your camera.

Dear 2600:

Just wondering why 2600 isn't a monthly or bimonthly publication? Thank you for your time and keep up the good fight. Just a question. Please don't publish Jason We're not monthly or bimonthly for the same reasons we're not weekly or daily. We're quite comfortable in the quarterly lifestyle.

Dear 2600:

Hi. Nice to meet you. 2600 website is very great in my opinion. So I want to write for 2600, but I do not know how to write. In other words, I don't know what you need. Ask the question. I hope 2600 can give an answer.

We can't tell you what to write. If you have something to contribute, only you will know what this is. Everyone has a unique perspective and access to things that others will never know. Sharing that information is what it's all A Little Boy from China

I find your magazine intriguing. I have received some past issues and noticed that in the past you were able to purchase a lifetime subscription. Can you currently Dear 2600:

purchase this lifetime subscription? If so, how much is it?

or you. (Please make arrangements to have your estate contact us if when you pass on so we don't continue sending issues to a deceased person. You'd be amazed how many people completely forget about this common courtesy.) Yes, we still offer the same deal. For \$260 you get every issue from now on plus 1984-1986 and two t-shirts. You will continue to get issues until the end comes for us

Feedback

The been reading 2600 for a while now but I just recreatify decided to subscribe to support the cause (I was
reading issues thanks to a friend's subscription). I'd like to
express my appreciation and basically just tell you to keep
up the good work! In reference to the title of 21.4 (I'l You
See Something, Say Something!), well, I did see something. There is a 'ghost image" of George W. Bush on the
front cover and on the 2600 tombstone there is the word
"ERASE." Dear 2600:

page, and what do I see but the news post of the spring isuse being released. Mell, Sin. RV. I thought, maybe the
local bookstore I walk past every day desert have the new
issue in. It usually takes them a day or two to get it after
the news goes up. But no, there on the shelf in its usual
spot was the new cover the day the news post welf in its usual any oper Last in the Last and the Last and the publication that you work so had to put out. I purchased it. I location that you work so had to put out. I purchased it. I told myself would just read it walking the erst of the way to work and put it away once I got there to study for another final. But to, you just wort it et me be. You just had to go and add a crossword puzzle. Here I sat, pencil in hand, textbook still in backpack, working on the puzzle after sfimming over the articles. Oh well, I am doing well in my classes. One day of study time devoted to learning something I will actually use in the real world is more than You guys need to be stopped once and for all. Here I sat one friday graning up for my finals when I opened up Firefox to check the requirements for a report I had to write. Naturally I have the *2600* web page as my home Brian my email

Please keep up the great work and I will keep happily shelling out my \$11 every few months. (I buy two issues, one to read and one to mark up with my notes and a highlighter.)

worth it.

Dear 2600: I couldn't help but notice that if you take the first letter of the "hidden" text on the covers of your last few magazines: Honor, Obey, Protect, Erase... it spells suspect this is not a coincidence.

As long as you're suspicious, that's all that matters.

Dear 2600:
I'd like to start off saying that I've grown to depend on your magazine for sanity in this chaos. That said, keep up the good work - my business depends on it. As a computer,

the computers of friends and family. This always presents the computers of friends and family. This always presents the an awkward stitutution as I never feel find it changing them, the but I know that if I make my services completely free. I'll fear the but I know that if I make my services completely free. I'll fear the work of the presents and the will never service they might produce as their levelational. However, my exervice they might produce as their levelational, However, I we come up with the perfect solution. I now charge all of my dients 25.50 for the purchass of a 26.00, and 1 give them a quiz which I make up for the current issue. I offer to either show them which articles/letters to read to answer before the next fine they call me back. I tell them that if they do not get at least 3 0 percent (14/20) on the quiz that I work come back for the their computers next time. I've bad at least two clients dain that they were go, wing to subscribe for a year just to see what information was out there and so easily accessible. So please, keep up the good work so my clients have something to read in grown back cover or some caused in fear. This would not only have good work so my clients have something to read in the back of the latest sissue. Might you not take the Task of writing this quiz yourselves and including it on your back cover or some causing and underform the way of the questions until the next issue or on your website. I will the act sissue with regular folks worth be expected to answer and don't provide the answers to an of the questions until the next issue or on your website. I what the the areas or events we didn't know, well, and the trivia of the bouns questions of Hill will we want to restitute the areas or events we didn't know, well and the trivia of the bouns questions of Hill we want to restitute the areas or events we didn't know, well and the rivia of the bouns questions of Hill we want to restitute the areas or events we didn't know, well and the rivia of the bouns question of Hop

reelected for a third term - yet. ews is, he can't be

I never thought that I would see Dubya on the cover of 2600. Time maybe. Keep up the good work. You're a breath

face grinning at the . Very clever and as Dear 2600:

I bet I'm not the only grinning fa grinning face on the cover of 21:4. 'always another top notch issue.

Dear *2600*:

Thanks for the numerous past articles regarding dumpster diving. These been greatly rewarded with finding full or partial computer systems, less drive and membors. Only however. I have found system brack (GigAPro. +). Mobos, 3GB-60GB had drives (some still under warranty). I IZBMB-356MB memory sticks, 52x-56X (D-ROMs, DWC(16s), and CD-RW drives with burning software. Finally, finding numerous gibt copies of Windows XR and software titles was a feast.

Loyal reader, Central Florida

Art The "Ad-Ware: response to .⊑ am writing

TE aged-

2600

this article. There are mentions of at least ten pieces of third party software and not one of them is Mozilla Firefox. Folks, the "AOL era" is over. We no longer have to be slaves to proprietary software. We no longer have to be at the mercy of closed-source software, hoping that it will remain secure because attackers can't read the code. And we no longer have to suck down prescription software from condemi Patrick Madigan in 21:4. I wholly on the part of at least ten parts of at least ten parts of a second of the parts of the part of the parts of the p

companies like Microsoft.

No. That et a has passed, because we now have viable afternatives. Mr. Madigan's article should be entriety un necessary, or at the very least, relegated to a short one paragraph letter. We harders; the target audience of 2600 should most certainly know better. Me are the ones who companies.

mouth mist certain Rying ubtets. It are the ones will are the ones will meet be our timmedulate Ryings, ads, and spay-ware free. We are the ones to whom our families and fined turn when they need technical help. And what kind of hackers are we who do not use the best products available, especially when they are free in every aspect?

Mr. Madigan's alticle is unnecessary because if he were to just memform a link to hittly, //www.mobil.ans.griffeto, all of these problems would not exist in the first place. If our, there may be some existing just that would need removal. But one who fails to prevent it in the first place is hardly a hacker. Ad-ware, spy-ware, and mal-ware exist because of products like internet Explore which presents an open invitation for such junk. This. Firends, is common more secure than the are have conceded that firefox is the more secure who call they are have conceded that firefox is the more secure however. I am becoming increasingly concerned at the number of sophomoric articles appearing in 2600. As a lifetime subscriber I dread reading articles like

Dear 2600:

that for the rest of my subscription.

Lastly, because I am not out to start an OS war, I'll only mention this once: Linux and *BSD have improved relevant alternative to Windows. If you're the kind who complains about Windows yet does little to change your situation, maybe now is the time to look into it. And if you greatly over the years. Linux is now a completely free and use a Mac, more power to you.

Shardin 359

Brian Detweiler

Dear 2600:

sigmet

Thanks for printing "Complete Scumware Removal" in issue 22:1. The cleanup info was right on. However, it seems slightly delusionary to believe that one simple spyware protector like Spysweeper will protect you by being able to "notify you of any [my emphasis] changes" made to It and starting files. I don't even think the maker of Spaweeper claims a 100 percent thir cate! I always run two spy-ware/ad-ware programs. a friewall, a nookit defector a virus program, and a firewall. I consistently cated fiffee-ent scom in each tool. I'ny it sometime. It will disgust you. I read your magazine consistently and always learn at least one thing I can take with me.

xzanu

Dear 2600:

I am quite impressed with the new format. It's good to see the intriguing photo covers again. The article quality has improved and I really like the back cover picture (just or now as you keep the payphones around). So I just TraktorGrl as long as you keep the payphones around). So wanted to say thanks for a greatly improved read.

Dear 2600:

Now this letter is probably not in any way going to benefit your magazine or your readers who have probably already discovered this but the cover says 'If you see something, say something' so here I am saying something, say something so here I am saying something. Also, I'm new and I was wondening what this was/meanit. 'I'm I see it all over your articles. Keep up the freaky covers.

MegaGeek

On your website in the foreign payphone section, I am on your website in the foreign payphone section, I am very shocked that you incorrectly put my country Taiwan as Taiwan, province of China. I hope you would understand that such mistake hurts all Taiwanese. Taiwan is an independent country, not a province of any other country, peass correct that mistake immediately to show your respect for all Taiwanese. Otherwise we will take moore actions to protess against such humiliation! Thankyou!

Hsiao-Ling Liao Taiwan

OK, let's all calm down here a moment. We're not in any way responsible for how your country (see, we used the word) is officially designated. That's the name according to the United Mations and subsequently the ISO 3166-1 standard. Those are the people to threaten.

Dear 2600:

This month the hacker tabloid Wired contained a piece entitled "Splice It Vouced" written by Rob Carlson, a research scientist at U. Washington. The first sentence reads the east of grasge biology is upon us, and proceeds to discuss how, you can do genetic engineering at home. The article fails to reference a much more entitle and thoughtful article in 20-4. "Hacking the Genome." Good to see 2600 ahead of the tabloids, of course, Wired ran a piece in June 2002 entitled "Hacking the Genome." about some guy bioengimeering a honeybee in his garage. Dan

2600:

Dear

Blaspheny, On the crossword puzzle in 22:1. Stallman is presumably the answer to 12 down with the hint open source guru. Stallman is adamant about his use of words, especially noting the difference between free and open source software and their movements. The two are very different, suffree to say, One is about freedom and one is about technological superiorly.

You are forgiven. Perfection is not for humans. I just thought you should know. It's okay though.

Emoticon won't mind us pointing out that it's technically not a crossword puzzle either. Then you

First of all. I just picked up my first issue of your magazine (214) and would like to say that you guys make an amazing magazine. I'm 14 and my older brother told me about you. Second, I was wondering if you knew of any cool things that I could on in W-DOS. Third. I was reading the etter sent by Narcess and was laughing because I hought it was natifiarous that that person thought he was seeing things... until I really took a look at the cover of 21:4. OMFG you guys are awesome cause I swear I looked at that crover for the medical fists was as ladder graves. Then all of a sudden wit there's pictures on the graves. I dight notice those before but OK And again MFT. there's a guy in a jump suit in the middle of the cemetery! But the biggest thing I found was when I thought there was sticky stiff on the cover of my magazine. It was a freaking the celling light and titled my magazine. It was a freaking face for those who havent found it it's big and in the top right hand corner on the cover. By the way who in the hell's face is that?

uner ant an operating system in existence that you read that the steep two tends of the steep that as search engine aught to keep you busy. If you do not recognize the face on the cover, you have nothing to worry about. And as for those little arrows, two twee you they exist to the designate when a line of code or a URL is too long to fit on y a snigel line of text. Without the arrow, one might be unsumption to the contract of the contract of

Meeting Issues

Your meeting guidelines say that "nobody is excluded." Dear 2600:
For some reason, I have been "uninvited" from my cal 2600 group. This was rather surprising 1 simply ceived an email asking that I no longer come to meetings.

The interupt guinement against a state of the control of the contr

Incidentally, the person who sent the email did not identify himself. It appears to have been sent from some anonymous account. Considering that my business cards were stolen the previous week. I really don't consider being 'uninvited' to be any great loss.

And just why do you assume that this "uninvitation" caries any validity whatevoer? You correctly interpret our guidelines as meaning nobody can be kept away from the meetings so why not apply them to the situation and real-ties that this anonymous person has absolutely no authority to enforce such a thing? By setting yoursel apart from the group in this way, you're doing exactly what this

It's been awhile since I've seen any 2600 meetings in clous/lile. I was interested in knowing if there were any objections to holding a meeting at a place of business. I'm when the boss-man, so there is rival an authority issue. The idea would be to use the front conference room with its port put on the DMZ or Internet access. We also have a project or and endosed courghad for smoking, it he environment would be ideal and can be closed off from the rest of the building (so having a bunch of hackers running around worth be a problem).

The only reason I think it might be an issue is that it is

a private business office. They no need for checking IDs, parking is free, etc. All would be welcome and I have a great deal of tolerance. As long as nobody lights up a big creck pipe there shouldn't be any problems. What are your floodfits?

We greatly appreciate the gesture. However, meetings traditionally take place in public spaces for a number of reasons, not the least of which is the fact that people tend to be shy and/or intimidated, both inside and outside the charlest community. We want them to be conditionable approaching us and that may mean observing us for a while people on making contact. Being in a public area also eliminates scenarios like the one metitioned above will be people could be "unimited" by someone who imagines up the could be "unimited" by someone who imagines ment would be able to bar someone from attending. Finally, the meetings are actually more accurately described as gathenings with no real agenda, lots of separate conversations going on at once, and people with widely divesse has actions going on at once, and people with widely divesse interests whose paths may ever actually interest. Having the accasion where we encourage real life someould be ideal for some sort of post meeting get-together own where you would have more control over who shows to any hone it is any own of sour.

Dear 2600:

I love reading your mag and hope it has a long life.

There is a 2600 group in my city but in my opinion it isn't a run right. Is it possible from the ostablish another 2600 jhere? I also came up with an acronym for the word Hacker that I want to introduce into the hacker community. Highly Advanced Computer Kids Entering Restricted Fystems. Do you think this will send the wrong assage?

still cleent. And the proper term is 'backdonym' (no kidding) since what you have is really the opposite of an vaconym. As for starting another meeting, such a thing
would simply lead to mayhem and all sorts of bad feelings.
Since meeting arent' run' by any one person or group,
anyone is fee to steer things in a different direction and
hopefully make it all a fittle better. If as you fear, the
group isn't abiding by our guidelines or is otherwise not
being representative of the spirit of the 2600 meetings,
perel lind out about it and rey will be delisted. It's happerel before but not nearly as much as one might assume
which, to us, is a testament to the dominant spirit that It will most definitely send the wrong message. But it's exists in the hacker community.

volved in a struggle to improve the image of hackers worldwide. For please, the mass media has portrayed us in a measure light and this perception has been passed on throughout our society. Hackers are seen as troublemakers our website proctaining that a viewer at future 2600 meetings.

"As many of you are already aware, we have been invention of the control of t throughout our society. Hackers are seen as troublemakers and outsiders who exist to cause problems and create

"We feel the implementation of a dress code at our monthly meetings will be a necessary first step in the rehabilitation of our image. There is a reason why such dress codes are a part of so many civilized events, as well as a required part of many jobs and even schools. It has to do with respect, something we could use a good dose of in feel the implementation of a dress the hacker community. mayhem. "We fe

We hold our meetings in public areas and we do this for a reason whe want people to be able to see us for who we are and to realize that we're not the threat that the mainstream media makes us out to be. But this attempt at conveying a positive image is sery quickly defeated when people show up at meetings wearing scrulfly attic, torm clothing, lasgy parits, offerwive t-shirts, or even shorts. While this kind of dress may suit some of us in the privacy of our own homes, we need to eatilize that when we are at meetings we are in a sense, on public disally. Therefore we over it to each other to put our best foot forward and look presentable so that any new people coming by don't

back analy in horror.

The plan that has gone into effect as of this meeting requires all attendees to wear standard formal attire. We're not asking people to go out and rent tuxedos or any timing unreasonable. Rather as simple suit and the for male attendees will suffice. Female attendees should attend in a standard business suit. However, full length evening standard business suit. standard business suit. However, full length evening gowns are also appropriate Dressing in this manner will gowns are also appropriate is necessary for us to be seen as rational, decent, and acceptable members of society. There simply is no reason to convey another image.
"While some will see this as an unreasonable restric-

tion on their freedom of expression and individuality, we think that that is an irresponsible attitude for these fimes. The dan we really put a price on the importance of maintaining a good image? Is the comfort of walking around in blue jeans and tank-tops really worth sabotaging our futures?
The answer should be obvious.
"These are difficult times and we all must make sacri-

fices. We ask that all meeting attendees, in addition to adhering to the dress code, keep an eye on fellow attendees and let us know of an attempts to discuss the meetings through noncompliance or otherwise mocking or nicruling these guidelines. We thank you in advance for your

Dear 2600:

vigilance."

Allan I don't own a suit or a tie, but I can borrow a full length evening gown. I won't shave my beard but in the name of good taste I will shave my legs. Dear 2600:

been blow has I am not attending any meetings until this F revoked. You all sound like marketing hacks and o your dress code out your ass.

eyeconoclast Magazine

2600

Dear 2600:

been boring have Not what I expected, but it would otherwise. Should I get a haircut too?

excuse to bust out the Wanted an guys. Great joke Dear 2600:

suit.

Eric Blair

one hand you're right but I don't know what to say! On Dear 2600:

Advent Systems on the other hand dead wrong! Dear 2600:

Can we also implement cubical assignments? We need to show the world we are sophisticated and willing to commute to the old nine to five.

Don Johnson

Data douch Mote about the Formal Wear for the MeetJust a Quick Mote about the Formal Wear for the Meetpublic areas and we do this for a resson. We want people to be able to see us for who we are." That Last line just hows your argument out of the water. We as people should be presented in a neat and toly may either see and difference between head and toly and tright-arsed, unaban professional." Why would any sane human wera suit and the to a casual social gathering 21 don't know how people dessis in America or if this affects me in Australia but the fact is this is ridiculous! Somehow I don't see how wearing define or a the As Geeks, Hackers, Pheaders, Nerds shouldn't but the As Geeks, Hackers, Pheaders, Nerds shouldn't but to the social groups. We are also individuals, and as individuals, I don't see why we are following the mainstream. Why can't we be ourselves? For those who was Scriffy Clothing, Demin, Ion Clothes, Bagg Pants, exet, all of these are accepted almost unwessigh in public in most cases as decent clothing. Whilst there may be the dod Offensires. —Shift, this is not common in a public place. "Dressing in this manner will convey the image that of is necessary for us to be seen as rational decent, and a very ceptable members of society. Somethow, unless of course to you are a radically conservable organization, I don't think that wearing say... Denim pants/shorts, a t-shirt, maybe a pair of converse sneakers makes us any less of an acceptable manner or society that someone with offerses in a suit, by Instituting this formal Attrie, you will only be creating another burden upon the already busy lives of our society. Suggestion: Grow Up, Get Some Balls, Maybe a Banin or a Life to go with it. Dear 2600:

You get excused from the April 1 awareness due to being Australian. The capitalization authorities have been alerted however. James Turner

Conundrums Dear 2600:

Is someone out there clever enough to help me liberate my own car from the clutches of my parking garage's management system? My garage uses the dual access system them with magnetic strip cards for those who pay daily and transponders for those who prepay monthly for 24/7

tem. I prepay זטז עופ נופוואני אייז mately, getting my car out now won't be quite as simple as floors. Nothing unusual at all about that management system. I prepay for the transponder monthly but, unfortujust waving it and driving out under the swingarm. That will bring me a worldful of trouble that I would much screen cameras on all rather avoid if I can They

(which is registered for use with either cat). The way I've got it set un joint now, withereer I want to drive Cat B I simply drive Cat A to the garage, move the transponder to B and drive out. When I'm done, I just return B to the garage with the transponder which I move to Cat A and drive home. B is then left back where it belongs, away I want to keep protected from the vandals in my neighborhood by keepinging it garaged most of the time. I prepay
monthly and access the garage with the transponder
(which is registered for use with either car). The way I've from harm.
I initiated my "system" originally by getting a ticket at Let me explain: I have two cars, A and B, one of which I want to keep protected from the vandals in

the swingam gate upon entering with Car A. I then took a bus home and drove bleek with Car B. I then took a bus home and drove bleek with Car B this time entering the garage via my shinn new transponder. To complete the circle, Jisst moved the transponder over to Car A and drove home, leaving Car B in the garage. That's how it all began. It still seems pretty rational: a monthly payment for a a car. But it also leaves whichever car is garaged with no way out! For the one car to be removed the other has to be left behind because the garage's system keeps track of whether the transponder is "in" or "out." It only accepts. "in followed by out," no "double outs" or "double ins." month's parking. No problem, right? Trouble is, my "system" provides constant garaging for

allowed.

take it 'out" with my transponder, the garage system would crash and theyd asy Hey, pal. This transponder is on our records as presently 'outside' the garage, so how'd you get this car in here? '(to explanation makes sense.) Or if I try to remove my Car B claiming a lost ticket and willing to pay cash for a whole day's rent, they'll say "Sir, how come our cameras don't show you getting a gate ticket with that car roadsy?" I think Car B is now "stranded" in the garage. If I try to

way, I'm stuck! The transponder says I'm "out" - and I can't get a daily ticket from the machine at the gate without driving a car in (can I?) to use So it seems that either

If I have to explain my "system" to garage security, they'll either cite me for something like attempted theft of my own car or else they'll call for the men in white coats and, right about now, I wouldn't blame them at all! for Car B.

parking garage systems help me figure out a way to get my own car out of the garage using some creative combination of transponder, tickets, and/or social engineering? At this point I have just run completely out of ideas. Thanks for anything and everything. knowledge Anyhow, can some savvy 2600 ers with

We see no reason why this ever had to get so compli-cated. It doesn't sound like such an unusual set of circum-stances where you couldn't have explained it to them from Tangled Web

when the transfer dominate in the street when you come to you to park your second can in the street when you come to you to park your second can in the street when you come to you can so that since you come you want to protect one of your cans. That shouldn't be a huge issue. Short of explaining the situation to them, pentaps walking in of explaining the situation to them, pentaps walking in with your transponder in hand may be enough to register it as an entry. If that doesn't work, attempting to leave when the transponder is still registered as 'out" may cause some confision but it also shouldn't be a huge issue since you're already paying for the parking. If you're doing to enter with a nare at least by "in," they may think you're trying to get two cans in for the price of one. But you're doing the opposite so it shouldn't cause too much trouble if flely choose to it bususcue it. You biggest problem lies in that ticket you no bought initially. They may very well think a car has been the parked there all this time if you never used it to leave. We is of doing this. Is there anything in your contract to suggest that you can eart simply supply the translation earth of the supply and are registered to 12! If they allow you to prefer it from use the care this struction must not be completely allen them. If they're completely unreasonable they may force them. You to park your second can in the street when you come to outset and probably worked out a reasonable method suggest calling another garage and explaining your set of circumstances as a potential customer. Weigh the hassle they give you against the one you're currently embroiled circumstances as a potential customer. Weigh in they give you against the one you're currently in. We're curious as to which wins.

Dear 2600:

boots and the said fit was a secret hacker group that nobody knows anything about. So when I got pomen I did a quick group the area waything about. So when I got pomen I did a quick grouple check on this group, What did I get? "A semi-mythical organization of watardly LISP and Scheme hackers. The name refers to a mandaism invented by Adorso Chuch, with which LISP is intimately connected. are unclear but one well-known LiSter has been known to give out buttons and it general, the members know who give out buttons and it general, the members know who they are. "I throught that was kind of odf. Ilooked at all the other results on google. I got the same definition on every hit! So it just got me wondening who the helt are these guys? Does anyone know about this mystemous Before I say anything else, I just wanted to say that I love your magazine and best of luck to you in the near fu-ture. I have recently been talking with my friends about stuff and one of them brought up the Kinghis of the lambda Calculus. I asked him what the hell he was talking There is no enrollment list and the criteria for induction group of hackers? If so, please tell me.

Before this gets out of control, let it be said that Alonzo Church wasn't a church but a person. The sentence quoted above could read as linking LIS to a religious organization or possibly even a cult. And people who make such accusations usually disappear. Himi Jendrix

Suggestions

Dear 2600:

I think we (or the majority of the normal 2600 readers) can agree that the cover of Freedom Downtime (with Kevin Mitnick in his cell with a "Free Kevin" sticker on the window) is an amazing image, captivating many parts of what this community is. It would be great if the 2600 store, or somewhere, would sell this online, if it isn't being old already. I would certainly buy one, even two.

You guys are awesome. One thing I would like to see more of though is real world hacks for equipment and objects other then computers, i.e., soda machines, ATMs, phones, and the like. Thanks for the great mag and keep rockin' the boat.... It has to tip sometime!

Serials 2005 Crew

This is what makes the hacker world so fascinating. It doesn't have to just be about computies or phones. In fact, it gets rather boring when that's all one focuses upon. Hacking is much bigger than one particular technology. It's a state of mind that can be applied to virtually anything. This is what the media and all the wannabes can never understand.

Dear 2600:

The Homeland Gestapo has finally been rewaled! Until the editional "Stack Annud" in 21.4, the Gestapo had not been identified in all the media as the Department of Homeland Security. From now on, let's call it what it really

is: Homeland Security=Gestapo.
The editorial asks - no, demands - that we stick around and fight. Yes! But we must begin fighting now before the Gestapo gains too much of a foothoid in American culture. Beginning today, in our conversations, in our letters, emails, on our websites, call it for what it is when we refer

(Bont know who the Gestapo were? They were the Homeland Seculty of Nas Germany who redirected the repressive, fascist policies of Adolph Hitler not only on Germans but on the people of all of the countries occupied by Nazi forces from 1933 until the end of World Mar II. They were also responsible for rounding up and exterminating were also responsible for rounding up and exterminating people, and the disabled. They exterminated more than six million members of the above groups from April 1937 to May 1965 in the gas chambers of their concentration camps throughout Central Europe.)

There is nothing that will drive people from your side faster than this kind of a comparison. While you may be able to ague that the thinking behind both regimes is similar, to automatically equate what we have today with the most hornedous people we can think of will simply force most of its to dismiss your points and in so doing lose sight of the real problem. Instead, let people armive at such condusions on their own if that's where the facts lead. Imagine what today's technology would have been like in the hands of the Nazis. Look for the potential danges and and the facts that the content of the last of the last. The lead is the potential danges and the last of the last. The future will be terrifying enough, up images of the past. The future will be terrifying enough.

Electronic Voting

Dear 2600:

I'm responding to a letter on page 30 of 21:4 about electronic vortigi. I know that it's not a tot, but to. Douglas Jones, a professor at the University of Iowa, has done a lot of work on electronic vocing, which can be found at jones/voting/ http://www.cs.uiowa.edu/^

detailing Dear 2600: In 20:4 you replied to PurpleSquid's letter

0092

one, regard-i if there is less of their political beliefs, stands to lose if there is insufficient security and accountability in this technolcomputer voting with: with ogy:

While it's a nice sentiment, the ability of an outsider to hack a voling system and ability nor hard his ability of the people who design, build, own, and operate the system. Should such people be unscrupulous, the risk will be so much smaller and the benefits so much smaller and the benefits so much greater to them than to the rest of us.

Bor Onx

Dear 2600:
I have picked up your fine magazine for years. I read the letters in 22:1 with interest as the little debates raged on about the really bad electronic voting boxes.

As usual, most people come at the issue with a party axe to grind. One write blanched Bash. Both major political parties are guilty of using the evil electronic votning boxes. The anti-Bash letter writer summed up the Republican Party crimes well enough. But lest he and forbits who root for the Democratic Party in the political football game be deceived, the Ds are also guilty in this problem.

ratic National Party using electronic voting boxes. Kerry was a boosted in key piniary states. And the Ds also used the little boxes in Abloquerque, New Mexico to change reality. I could list pages of fast here. But why? It has already been done by Bev Harris. She documents the crimes of all political sides at blackboxvorting.org. This is by far the best data with documentation on the subject. Anyone interesset in reading real data should head to the Bev Harris site.

P.S. Best city name in America? For me it is climax. Michigan. Howard Dean's campaign was derailed by the Democ-

Joe Domenici Austin, Texas

Contribution

Dear 2600:

years, I've been showing your Freedom Downtime movie to nearly all my students; in school (egg-t-t-19) with great re-sults. The interest is huge and we have very interesting discussions afterwards. So this is my small contribution to keeping the hacker's good image, although I'm not a real past two the Just wanted to let you know that for

Keep up the good work!

mAcreak

This is an incredible accomplishment and proof that
with a little determination, we can help to influence the
world around us. This is truly what school should be all
about. Thanks for your efforts.

Witnessed Dear 2600:

You're probably aware of this, but what the heck. Recentury my husband and I were at the Museum of Science and Industry in Chicago. They have an exhibit about computing and the Internet called "NetWorld," where they demonstrate his Flying anoust, you can "digitize" your image etc. I was interested to find that, on one of the informational boards, they define hackers as people who are

interested in knowing how things work. conservative institution has towards hackers.

You're supposed to get this pass from a terminal when you enter and quot can be it to make the displays more inter-active. I don't know exactly how this works because when we went in the terminal had an "out of order" sign on it saying that the system was down. My husband said, "Boy, this exhibit is really realistic." Pass." Also, the exhibit has a feature called a "Net

Keep up the good work!

We're glad they understand the concept of hadding to a degree But if all they're doing is reasming people who are curious about the wrong thinss, it's doing more harm than good. We have more than enough ways of labeling crimmals without using something so vague and nonsensing 18 "Zandee".

Dear 2600:

the oils are maken mixter and anoly mixter, out actinitions of mixter and mix am now on probation. I happened to have a copy of 21:3 in the give compartment when the cop aschribe the car. As I stood in front of those wonderful bule flashing lights, he came back to me with the 2600 in his hand. I was thinking that I was about to get a hard time because I had a magarine that I was about to get a hard time because I had a magarine that said "hacker" in the car along with three old com-Been a reader of the magazine for some time. Just had to write to tell you that I just got pulled over tonight. My license is suspended and I just got off of house arrest and

wehicle and were was absolutely no cause to search your vehicle and were lests to Jugge you on your reading material. Despite the fact that this turned out OK and that the cop appeared to be a decent person, this sort of thing is more than a little frightening. felt. understand the relief you must have ₩

Letters From Prison

This letter is in response to SystemX's letter in 21:3. I am also incarcerated, albeit in a federal prison, so I may have some useful information for SystemX and others in the same unfortunate predicament Dear 2600:

I was in the Warsaw ("Northern Neck") County jail in Virginia. You are allowed to make three calls to a number and then a prepaid account must be established. Well, I was in transit and only in Warsaw for seven days. I made my three calls, which are free by the way, to my loved one. Then we thought that maybe! To could call the second line of my loved one's house for free also. It worked! Six calls

Gimes fifteen minutes was a whole hour and a half! This worked even though I had to enter my Warsaw jail-issued imate number. I guest that they will let you call any number the thems in the hope that you might have to set up a prepaid account with each number (mother, gridfriend,

a prepar actionit with each infinitely illustrated, buyler friends, etc.).

So you can take advantage of this system by calling any number three times. Let's seet two house phones, work phone plus extensions, papphone outside of work, cell phones, friends phones, etc.

Of course System's Deliver, must make collect calle.

of course Systems. Telefeve, must make collect calls, v not three free calls to any number, Depending on the cost of calls made via a prepaid account, it may be cheaper to pay for the most basic service for a telephone line, accept find of the collect calls you can, and repeat. This sint very wince of honest, but neither are the outrageous pries that immates and their families pay to communicate by phone. 2 Here, and in all federal prisons nationwide, immates prepay 32 earts per minute for long distance in the Us. The money comes right out of our accounts. If we call collect, the rate increases by four times! That's 92 cents per minute!

To SystemX and all of the rest of us who are down: I understand your plight and hope that you can find a way to stay in contact with your family and friends. Shout out to Stormbringer!

Speaking of whom.

Tony Sparx

Dear 2600:

Stormbringer can open mouth and insert foot. Adduss article in 20.2 Van say perty Loca to output power on XM Satelities, which in 20.2 Vaid was introcreed. I read recently that XM Satelitie puts out about 186w worth of power into the antenna for an effective radiated power (ERP) of 10 megawatts or so. Sweet! I was wrong.

I have been locked up awhile so have not played with MFI or read much about it. From previous experiences on the abdicting natures. I know a for of products can be hacked to do things the manufacturer never intended, including being on other frequencies. As for WHI cards, making your own channels above the standard ones would allow one to put up a fairly wecured WLM into south Earl producing or these channels. In its could be a big problem for someone who has a LM mith so due where be a big problem for someone who has a LM mith a rogue wheels who in non-standard frequencies.

In assuming all of the frequency channelization is done on the BOM, controlled by firmware on the WHI card. Feety easy to pull the ROM and blow your own and put it in back in the WHI card. It was very same think you would do with an Old 300 cell phone or Motronla radio to make it do it wer, it would be much easier to do.

Wiff and and noticell tontains everything needed to decode just about anything you could throw at it, provided
you can control the frequency and deal with the bits coming out of the J/O decoder is much more versatile than the 2 or 4
level decoders? The mentioned in the past. The J/O decoder is
in which to what you program to decode, and the sampling of the DSP chips on beard. Right now I'm aware of
projects, including folk Lands to that use an J/O decoder to
do AM, FM SSB and some digital modulation schems such
as Wiff and modes used on date over radio. Theoreterially.

able to decode FLEX/Golay/POCSAG pagers, nes, HDTV, satellite radio, or satellite TV via digital cell phones,

In the 2.4ghz frequency range the WiFi card uses there are cordies phones, ham ado, and other things to potentially decode. Those would be the very basic things to try out if the ROM or driver can be hacked. I do not know how far out of spec the WiFi cards can go before performance rolls off. Down at 2.3ghz we have satellite radio: Man of Siniza. A really good antenna or LIA might have a WiFi card doing satellite radio: WiFi card doing satellite radio: WiFi card doing satellite radio: WiFi card can in fact be controlled to camp out on frequencies you want, and the I/O decoders can decode what you want via noil-your-own software, there are some tricks to get other frequencies of interest converted up to 2.4ghz where we can deal with them assuming the frequencies are below 2.4ghz. For those above 2.4ghz, re would have to down convert them. That would make GSW/PCS phones, satellite IV, satellite radio, pagers, ham

radio, and spread spectrum signals all potentially decod-

able via WiFi card.

If the WiFi card can't be hacked, all is not lost. The I/Q decoder chips are available for pretty cheap, easily interfaceable to the computer. The I/Q decoder input would

redeate to the computer. In a full decoder input would have to be put on a receiver, scanner, satellite radio, etc.

device so you can thinke with the data being spit out.

there way the wind blows. I'm willing to work with people on hardware issues and designing some circuits for use, which means I'll have to order some books.

In 214-, ji'r words in concerning Mon 12 Jages. RTD is stampling into a sterifory that most in the community have not explored.

R Radio frequencies, Josen have dabbled in cellular technology, pagers, and Wiff, which are all R-based.

Learning the basics of R is not hard. Many websites explaining radio theory will get one schooled in the foundations of R.

RRD is petry Simple technology that is radio-based. At a simplistic level. RFD is just a very simple radio transmitter and receiver (transcriver) with a memory chip, with a miner and receiver (transcriver) with a memory chip, with a memory chip, with a memory chip, with a memory chip, with a simple state of the querying transmitter power and covert it to usable power and thus must take a little bit of the querying transmitter power and covert it is pretty much basic electronics.

RRD in party menut is pretty much basic electronics.

RRD in a product is pertay say to kell, so in premayor and invense in intermediate.

FRI DI in a product is pretty easy to Kill. Tossing it in the microwave should either kill the silcon chief by plasma ard or overwhelm the circuits and burn them out. Of course, there is a potential fire hazard. Static electricity is also another potential killer of REID. As computer guys, we all know the potential problems with zapping our boxes. Those old static guns to remove stafe from records may generate enough to kill an REID chip. Loughtlu, but a cell prone up at full power with the tip of the antenna against the chip may kill. It. A ham adio walke takles at full power may also kill. It. A high powered ham transmitzer will definitely do it, but not something you carry around. A stungur will definitely do the job, as will taking a hammer to it. g

into the first of Exploits? I'm not sure if RFID uses spread

close enough. Some of the han radio transceivers can be easily modified to operate on frequencies outside of the han radio bands. Of course, transmitting inside or outside of the han radio bands of frequencies without an EC license is a federal offense. latter would be interesting if WiFi cards could be tricked to operate on the same frequency as RFID. Then you'd be able to query RFID chips and spoof your own queries if you were

There may be other frequencies in use by RFID. You can if thind these by suffing the manufacturers' websites. Out in the field trikering, you'll need a decent frequency counter. OptoElectronics makes a handled frequency counter (The Digital Scout) hast should be fast enough to capture the frequency in use by RFID. They make another version (The Scout) but I don't think it has a fast enough "lookup" then to accurately capture the frequency in use by RFID. Anyhow, simply holding the frequency in use by RFID. Anyhow, simply holding the frequency counter next to an RFID scanner while it is scanning an item should give you

the frequency of the device.

Digging acount der cell. I found speec on the Em [Rec I Digging acount der cell. I found speec on the Em [Rec I tronics (www.emelectronics.co.uk) EM-4228 RFID oftp. It is in compliance with the ISO IEC 18000-6. It carries a 128 Bin to compliance with the ISO IEC 18000-6. It carries a 128 Bin to compliance with the ISO IEC 18000-6. It carries a 128 Biombs, and 2.45ghz bands, and has no apparent secu-ring of strangers spee is the EM-4222 which uses 64 bits of read/write memory.

read/write memory.

In the 13.5emitz frequency range, the EM4006 has 64
bits of ROM while the EM4035 and EM4135 have 64 bits of
ROM, and have 2300 bits and 2304 bits of read/write memory respectively. Security is done via lock bits or mutual
authenfication.

Most of the Loompanite ropoducts appear to be a series
of RID chips in the 1225htz range, with 48-128 bits of ROM
and 256-2048 bits of read/write memory. Some of these
toldiow ISO 11784 or 11788 standard, and use lock bits and
password, password or mutual authentication security.
Some versions have no security at all in the read only

Being that I'm in a prison cell. The taking a stab at the water according the control of the con

mentioned interfaces.
The 900mhz Motorola Spectra and MaxTrac radios will receive frequencies 928mhz and above without modifica-tion. The P4102xee or 4 level decoders work very well for decoding pagers. Below 928mhz, these radios need modi-fication to the VCO circuit to work. The modifications are

there are cordless phones, RTD, video links, wireless mics, and other FCC Part 15 devices, as well as ham radio comwww.batlabs.com. In e

to the Spectra or MaxTrac radios that will do most FSK data modes and transmirt and revewe up to 19.2 kdps. The ROM-600 will do many modes as far as encoding if you set up the programming software right.

Hopedully some of this information will be useful to someone. I'd like to correspond with some people "in the know," and mewbies to radio trinkering as well. I do respond to all people. data modems that connect Motorola does have some

Stormbringer William K. Smith 44684-083 FCI Cumberland, Unit A-1 PO Box 1000 Cumberland, MD 21501-1000

Further Info

Dear 2600:

runniars in the tree in the view of the state is commanded.

Swipers. These people go into unmanned station entrances and treat the MWHs and MKHs by globe bill stort in the pick up dissarded pay-per-inde Metrocards, take advantage of a known flaw in Metrocards allowing for free rides (grabbing the magnetic strip between the C and the A and making a sharp horizontal bend on the magnetic strip between the C and the A and making a sharp horizontal bend on the magnetic strip between the C and the A and making a sharp horizontal bend on the magnetic in (half the normal fare - yet they're still turning a profit is cet they got the cards for free in the first pace). Well, the MIA has been cracking down on them. Just recently, the MIA announced that there will be harsher penalties for swipers. the workings of the Metrocard system in 22:1. There are criminals in the New York City subway system known as like to thank Redbird for his article I would

me rivin a sac over treating a read-caping technology at a few undisclosed stations. Here's how it works: when your pay-per-fined Metroard has only \$2.00 left (one ride), you swipe the card and the turnstile will say something to the effect of "PLEASE SWIPE AGAIN." At his point the turnstile has already deducted \$5.00 from your Metrocard. On the second swipe, the turnstile will "sap" the magnetic stripe of your MetroCard, rendering it useless; and therefore, swipers can't pick them up and expose the flaw).

It's easy to see from the tables showing the data fields on the card eactly with this is lossible. The MTA has been recently testing prevention methods in some of the turn stiles where this activity has become a major problem, such as at Grand Central Station. It's worth noting that while this prevents "card bending" when there is an official abarance of StoO on the card, it does not prevent if from being done when there is a balance of \$2.00 or more on the card, Authough most arent Valling to risk damaging the card, thus losing their remaining balance for the extra \$2.00 they'd gain, the flaw will still exist, even after their \$2.00 they'd gain, the flaw will still exist, even after their efforts to apply this sloppy patch have finished.

Dear 2600:

Not sure about other states but where I live 711 is used for TDB for the deaf. Internally in the BX switch it's used for internal functions (such as a class of restriction or class of service code). By dialing the other weird",

numbers you can access some PBX switches remotely and program them (or more precisely program certain functions/numbers) without access to a terminal; it's limited but mainly used to get a phone number up and working until it can be accessed through a terminal.

ou didn't tell us where you live but the same thing true here in New York. Dialing 711 gets you to the York Relay Service" which allows you to communicate holds true here in New Yor "New York Relay Service" wh TTY to voice and vice versa. You

Dear *2600*:

Typicatily, at least from my school's filter, trying to go I www.2600.com would yield that the fise was blocked because it was ''Illegal''. So inagine how strange it was to go to www.2600.com and find that it was blocked because in go prolainly, off crouse, I have yet for find anything outwill provide a supply to the expected results - blocked, the reason being 'Illegal'. a However, going to www.2600.cng takes me straight to the ey website with no problems.

Just thought it might be interesting to know.

FxChiP We really think we deserve more than a one categorization. Morons.

Dear 2600:

In 7221, combool worken in regading the insecurity of Blackboard online classroom software find sure of its officlait title). I myself was introduced to Blackboard last semester for some online classes at a community oclege.
The insecurity that was mentioned by Public Display was that student ollorism were the same as their password by default. This is not always the case. The setup I logged in ywith used our student ID assigned by the school, as well as a
with used our student ID assigned by the school. The the
password was set up before Blackboard for access to all it
for some classes. As near as I can tell, the default pass
word and login were set up by the school district or school z
word and login were set up by the school district or school y
flaw with Blackboard itself... although I'm sure there are
many to find. somebody wrote in regarding the insecurity of noi

Dear 2600:

As a recent entry level separatee from the USMC I just wanted to make some comments about the article in 22:1. There are to my knowledge five ways that work to get separated from your military contract.

In Medical: One of the safest yet most difficult and time consuming methods. Unless you succeed in injuring yourself in training pretty seriously without it looking like I was on purpose, it is a pretty tough method unless you of in the first three days of being there. You can count on the possibility of being at your training facility longer than if you had completed training for recovery time, etc. Otherwise you have to be able to produce some sort of finedical record of serious disease or injury to be disputing etc. It still not a guarantee.

2. Mental: Otherwise known as Suicidal Ideation. This can be an effective mentod if done in certain way. I saw a few people try this method to no avail - as well as a few who succeeded. The trick to this one seems to lie in being just fucked up enough, but not too fucked up. It as is is a linge help if you have some prior history which is.

psychologist or some Trying to overdose on medication or poisoning and razor slicing was most popular. Yes, you actually have to make an honest effort to look You can't just say so or you psychiatrist or health facility. want to kill yourself. lar. Yes, y like you

won't get ou 3. Fail Y

3. Fail Your Unine Test: Will only work if you get high right before leaving for hoot camp. Or if you go AWOU, get high, and come back.
4. Go M. (Unauthorizea Absence): This method works but is risky and often difficult depending on which base you're on. The key to this is you have to be gone for at least 10 days but no longer than 30. The mot sure of the reason for at least 10 days but no longer than 30. The mot sure of the reason for at least 10 days but no longer asson for less than 30 is be-

classe after that you will be considered a deserter and go into a different struktion entirely. The speed and penalties with which you are discharged vary depending on the mood of your chailth. Late seems that they go much lighter if you but facility. Late seems that they go much lighter if you turn yourself in rather than if you get caught. Late seems that they go much lighter if you turn yourself in rather than if you get caught. Late seems that they go much lighter if you turn yourself in rather than if you get caught. See they can be considered to the control of the and, a star if this totaken breaken the first several times, A same that the first several times, A same that soon Affiliation: I am prefix several this is true although I have no firsthand experience in observing such a case. But the military does generally seem to be pretty admant against belonging to any such similar organizations as themselves.

Nicholas

I recently learned of an interesting anonymous FTP server running at 216.200.68.150 through an acquaintance of mine. It would appear that this server is what Norton's "LivelUpdate" system connects to when it goes to fetch virus definition updates. So much for that expired updates subscription. Dear 2600:

Also, with regard to Darkrys "HP Printers: The Hidden Threat," it should be noted that you can also telnet to any printer that has a Jetbirect interface card and an IP address. There is a command line configuration utility that lets you do all sorts of things like change passwords, print test pages, turn protocols on and off, etc. Exact capabilities vary by model, but even the older 5si models (which is

had a feature that HP called a "mopier," which consisted of a small (300 MB?) hard disk that stored print jobs and allowed document server-like functionality. units Some of the 5si with. play are what I have)

Newer models may allow all sorts of different things from the command line interfaces. Have fun.

Shortfuse

Dear 2600:

On the back page of 22:1, you express a great deal of fear surrounding Remote Control locomotives.

There a strong senter country controlled to the largest term as the admission of the largest artificad companies in the U.S. He described RCO (femore Editor) do control Operation) to me. It's not like an unmanned locomotive is bazing a trail from one state to the next. What it happens is that the engineer wears this belt pack remote control system and simply operates the locomotive from the side of the track. Note that the photo was taken near a railtoad switch (two sets of tracks are merging together in the photo). One of the most common uses of RC locomotive was is when they're in an industrial district dropping off or picking up a few boxcars or whatnot. The train is stopped, then the engineer gets out and operates the switch. Without getting back into the locomotive, it can be intend, then the train can be brought back onto the main crack, the switch reset, and the engineer can be back on this way.

yards to shuffle a few cars around here and there when assembling a freight train. They have very limited range and
they re fail-safe, so they emergency brake if the signal is
obed for any aroson. They also severely limit the train's
speed when under remote control. To the best of my
knowledge, the FRA will never allow complete remote
outhol for trains actually transporting cargo for long
distances.

exist is so that big railroad companies can run a smaller crew and pay one engineer to do the work of two or three people at once. A great many engineers loathe this tech-It's also worth mentioning that the main reason these nology, but safety concerns are not the primary reason.

We'd like to know more about the authentication used to ensure the "driver" is legitimate. If it's like flying a model plane, there could be some issues. ax0n

Dear 2600:

You might find this interesting. If you type "secret service lies" into google (without quotes) it recommends "secret service is." Thought google was on your side....

ssinformer The two statements are more or less synonymous any-

Dear 2600:

мау.

I hope LabGeek (21.4) was told the truth and Wal-Mart is paying \$X.000 per anit ther shooping cart! At Food 4 Less in Southern California nobody knows. but best guess seems to be \$500 with two locking wheels. There is a syllow line anound the store but the triggers for the wheels (which lock up very nicely) are wires burned in the asphalt or under the sidewalk! I tried going around the yellow line and it locked up where the wires had been but in the pavement.

weeks since they got the system although it does seem amybody with a couple of wrenches could swap out the locking wheel for the non-locking ones pretty quickly. The manager said they had a sort of remote control lost they

the lines so it is not a simple magnetic device. This does lead to the question of what frequency and if key that could unlock the carts easily so it is probably an RF trigger. I know a compass shows nothing funny around it is coded

Dear 2600:

The latest military technology (...right), that's being issued out to all personnel (at less) it the Nay) is what they call a "Nay (ask land." Basically this is a card, much they call a "Nay (ask land." Basically this is a card, much like a credit eard, that is directly connected to your personal bank account (whatever bank you choose). On the card is a normal magnetic strip like all credit cards, but something earls they call at "rip" is installed on the middle left side of the front. On my ship they have changed all the vending machines so that they only take these calds in stead of money. This is supposed to eliminate cash on all many ships. Basically how this work is, you put, your card in an ATM like machine on the ship and put your four digit. PN in. Then you can transfer funds (up to \$25) onto the hip. You can also set up a separate account like a normal bank account with no limit on funds. For this account the machine must read from the strip on the back of the card. The venting machine however only wread from the chip and you never hove to enter a pin number. So if someone steals your card, the most they would be able to take from you without your pin would be \$25.

OK, I think that pretty much explains the card. Now

comes my question. Since the chip is just digital information, containing only an amount of money (more than \$25) is it possible with a reader/writer device attached to but haven't made much of an inroad in the States as of yet. We'd like to know what kind of research has already been done with these chips. Let us know specific names of readding equipment that is used and perhaps we can piece together some facts and theories. These systems are popular in various parts of the world your a computer to "make up" yor them from any bank account?

Curiosity

Dear 2600:

I recently discovered 2600 and wish I had been reading your mag since 1894. The Z beyeas old and have just
bought my first PC. I do not consider myself a computer
hacker but I have always lived by the hacker mindset.
Vesterday! was reading Stephen Hawkings The Universe in
a Muststell! and something caught my eye. If you see
something say something.

The quote you sent us is indeed something to ponder: "By the year 2600 the world's population would be standing shoulder to shoulder, and the electricity con-

"If you stacked all the new books being published next to each other, you would have to move at ninety miles an hour just to keep up with the end of the line. Of course, by 2600 new artistic and scientific work will come in elecsumption would make the Earth glow red-hot.

Nevertheless, if the exponential growth continued, there would be ten papers a second in my kind of theoretical physics, and no time to read them." ronic forms, rather than as physical books and papers.

Corporate Secrets

Dear 2600:

Security Issues Dear 2600: anyway. Law for the telephone company here in British Conumbia, alean kas put GPS units a most of the tucks used
for installation and repair. Itelus apparently bought the
Geomatics company that mauufactures these devices
which are supposed to be able to show in real time where a
vehicle is. These devices are mounted on the dinver's
boxed under the dashboard misde the vehicle. The satelities and the vehicles we drive with to there electronics
boxed under the dashboard misde the vehicle. The satelities and the district of the satelinches. A couple of small wires feed down from the hockey
puck and enter the engine compartment and feed through
the firewall to a black box about the size of a cigal box. I can
as see lights on this box through the creack where the
molded pieces of the dashboard fit together. This is what I
know and understand. All our managers have the ability to
access the GPS program from their computer. They can tell
when we start our frucks in the morning, when we drive
away (and there is a detailed map associated with this that is
hows our route), our speed, and died time. This informafor cell range the GPS information is compiled and sent our
of cell range the GPS information is compiled and sent our
when we do reach cell communitation. Telus has so only
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could alter management that we were footing around with if
could alter management that we were footing around with if
could alter than agency or extend or freel transmission?
Does anyone have

Fired of being followed

Please don't use my name Comfort yourself with the knowledge that there are people all over the place figuring out ways to subvert these things. Well publish the results when we get them.

Re. 'Best Buy's Uber Insecurity" in 21.4. I'm going to a have to either call a bulf on this one or say'rs a flue. To have to either call a bulf on this one or say'rs a flue. To have the was described would not be possible in all Best Buy locations. The network the writer most likely connected to was one of the "goves signal" which is on a VLNM of the stooks regular network. Whe access is restricted for through the use of a proxy server (168.94.74.68.8069). All of the through the emotely located registers are a part of have to go through the proxy server. Therefore the writer must have connected to the "goek squad" network (which needs proxy address anyway) or the writer was in a new Best Buy location that is different from the other 650 or so. Changing blocked ports wouldn't con the extend of the web. The biggest indication

that I have that the writer connected to the GS network and not the store network is the 192 address. BB corpo-

rate controlled networks are 10.10 networks.
Interestingly enough, once on the store's internal network any employee's credentials give access to many different things. Even the logins of terminated employees

worked there was exploiting the punch in/out process. We used a simple application to punch in and out. The app verified your time in/out with the system's clock and in the system's clock was verified by the bios clock. The bios was not password protected. So... if you get my drift, punch in anywhere, find a terminal that you could get to bios from alter bios clock. Ten minutes' work just turned into ten hours work. Easy to catch if you're doing it in large or those who have quit still work sometimes. One of the interesting hacks that we pulled off while I

increments.

Obviously the way to protect against this is to lock the bios out with a password and write software that checks a controlled clock.

In response to Impact's letter in 22:1, some universities like the one 1 go to wipe out the database every year. So even if you get an old network crad, that old association between the MAC and the username is doing to be one.

The key word here being "some."

Dear 2600:

In issue 21.4 the article "Hacking LaGard ComboGard Locks" by Axon mentioned that digital locks were more dif-ficult to "hack" than mechanical locks due to things like

silent operation, etc.

To like to point out a weakness in digital locks that ofthe to point out a weakness in digital locks that ofthen goes unmentioned. In fact, it is frequently easy to deduce most of the code of a digital lock just by a quick
glance as you walk by. I have used this technique on more
than one occasion to inform a client as to their front door

security code along with a lecture about being more secure. Specifically, the keys in the code are most likely dirty compared to the keys not in the code. Unless someone is

To compere to the resystance in the touce, unknown and undle to near keys in our observable the unit's used. If a key appears twice, for example, it will be twice as dirty as the other keys. Either glancing head on, or at an angle to the light (if the lexy, are teathwelt death), should expose which ones are more used than the others.

Now that pretty much gives you the numbers in the combination - but what about the order? If there are four numbers, there are 16 possibilities - but more than likely looking at the numbers will key you thinks as to the proper order. For example, inagine that the 5, 2, and 0 keys are four introduction and the combination in the condition of the condit of the condition of the condition of the condition of the condi

Even well cleaned keyboards have clues. Non-used keys will be stiffer to gentle wiggling than the often used keys. Moral? Clean your digital keyboards and change your anonymous code frequently.

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wrap the end of your finger in a few layers of cellophane so your own prints can't be read, then press down on the scan pad hard. The previous user's prints will still be there and with a little luck and no smudging, you'll be authenticated. It's worked about 50 percent of the time. consumer level fingerprint

It can't be this easy. We haven't even seen this used in

Dear 2600:

Today I got the weekly chain email from my sister. Another and the man of the silly and about cone virus that would take everyour life if you so much as tooked at it, blab blab. What really got me was that this had been sent to her by someone at DHS.gov! I would think that the Department of Homeland DHS.gov! I would think that the Department of Homeland Security has enough on its hands to worry about than propagating chain emails.

If only that's all they did.

Alon

Dear 2600:

Recently I was taking the placement test at Mercer County Community Oldege bere in New Jacegy and made a very disturbing discovery. MCCL uses a web based testing system called "ACCUPLACER" (which is approved and non-maized by the College Board). The cleftent machines were standard Windows 98 machines, accessing the ACCU-PLACER system via IE (obviously this may be different at other locations).

Order Gardon characteristics are asked to enter your operation content caracteristics. The described in the entering my principation. I noticed a drop-down took appeared as I entered the first letter of my name. It took a second to realtier as miss engage is set of people's names who took the test on this particular machine which started with the same thorker as audient curiosity getting the better of me. I skipped down to the "Address' field and entered a 1. Sure enough. I saw every address starting with a 1. After a quick and the started and the same though as daddress starting with a 1. After a quick and sure enough. I saw every address starting with a 1. After a quick and sure enough. I saw eits of every SSN that started a 1 and fasure enough. I saw eits of every SSN that started with a 1 that had been entered on this machine. Now, keep in mind grate enough. I saw eits of every SSN that started with a 1 that had been entered on this machine. Now, keep in mind grate that you are given paper and pend for some and on not on the placement test (after verifying over the phone that ACCU. It would be trivial for somebody to sign up for the placement test (after verifying over the phone that ACCU. It has to be an option) at their local college, which may be free, and generally carries no obligation to actually sign withen an strain of the starter sould fast the problem on the client end. However, you have to question the wisdom of ACCUPLACER using SSN as identification for a wide of ACCUPLACER using SSN as sidentification for a second or ACCUPLACER using SSN as a identification for a second or ACCUPLACER using SSN as a identification for a second or ACCUPLACER using SSN as a identification for a second and account or ACCUPLACER using SSN as a identification for a second and account and account of ACCUPLACER using SSN as a identification for a second account and account and

simple placement test in the first place.

Just thought I would get the word out for anyone who security, they may want to avoid ACCUPLACER may be getting ready to take their placement tests for their own security, they may want to avoid ACCUPL

MS3FGX

45

we did see two separate people with a big orang striker (about 3" x 10") with big huge SSSS letters on it. It looked like it had accompanied their boading passes as they were both holding the big orange striker along with their boarding pass. I mean, you could see this big orange stricker clear across the room. on it in your last issue we were keeping our eyes out for an SSSS on our boarding pass just for laughs and giggles. Having a ponytail, somebody in my family always seems to be searched at the airport. I'm an avid 2600 reader and we saw the little bits of info wife and I went on vacation this past week, and because Well, we didn't see any SSSS on our boarding pass.

very intently, like hawks. And when I made eye contact
with the lady, she did morbeake eye contact with meat all.
An old lady that doesn't break eye contact with a hippie
looking dude. a little odd in my book. I had to break eye
contact first. The other orlange SSSs sticker we spotted
was being held by a little fial old lady who appeared to be Both people were old and clearly did not present a threat. One was an old couple who was watching everyone by herself.

gers. One: they didn't even look remotely threatening. Tho: they were way too losberant of everyone else, and that lady *not* breaking eye contact with me was very unusual. It may have been nothing, but for me it's unusual. and share information. My opinion of this scene was that the two orange SSSS sticker holders were actually employees looking for suspicious behavior amongst the passen-I'm writing you guys because I think it's important that as citizens we continue to collaborate with each other

mation for us all. It confused the hell out of us as this scenario didn't fit in with what we've read about SSSS at the airport. This happened at Sanford International Airport in Well, for whatever it's worth, Florida in April.

Thanks for keeping the magazine going. I always look forward to them. I feel as though I have grown up with you guys.

Dear 2600:

pertains to travel in or out of the country, I'm surprised that we've not heard anything from those inside the airline industry. Without a doubt there are individuals working in With all the publicity regarding increased "security" as that field who could offer a new perspective into what's going on and give specifics the rest of us may not be privy

If you see something, say something.

Our pages are open for their input and for that of all of our readers.

Got a letter for us? Send it on the net to letters@2600.com or use snail mail: 2600 Letters, PO Box 99, Middle Island, NY 11953 USA.

WHERE HAVE ALL THE

MPLANTS GONE?

So as I write this, I'm in a 747 at 33,000 feet, heading east over Tokyo. It's been a nice few days in Seoul, but now it's back to life and job in the U.S. of A. Some thoughts struck me just now, though, that I wanted to write about. I wanted to start with a question: Where have all the implants gone?

This is 2005. Not only did we make it to the 21st century more or less intact, but the pace of change our grandparents and great-grandparents lived through in the 20th century is continuing. That said, why the heck do I need to be here typing instead of just thinking my thoughts directly into cyberspace? Wasn't I supposed to have a slew of bio implants to take care of these humdrum aspects of modern life?

While I'm asking, where are my robots - and not just that automatic vacuum thing (though I admit, those are pretty cool)? What about nanobots to clean out my bloodstream? Hell, I saw a commercial ten years ago from AT&I promising that I'd be able to roll my whole shopping cart through a checkout, and something like RFID would tally it all up. Did any of this happen? arate people struggle with self-checkout, thereby taking about twice as long to get through the process than if a professional checker-outer handled it. This is great for Home Depot, but isn't exactly the type of technology that Bruce Sterling was excited about when he wrote Islands on the Net. Well, at Home Depot they think it's pretty cool that they can have one person watching four sep-

couldn't make enough profit to avoid being eaten by one of their offspring (in true Oedipus style), but they were always pretty hopeless anyway. But idd you know that more people are buying custom ning tones for their phones than are buying digital music? And the tones are about \$3, but There is some pretty cool stuff going on. No and give a pretty good picture of people's insides. Have you noticed that automatic defibrillator machines are available in many public places lately? And cell phones - woah! OK, so AT&T cure for cancer, but those MRI machines are neat

types of digital rights management strings attached, and therefore are a waste of money. But the tunes are mostly under a buck! Purists will observe that the tune you buy comes with all heard of copying your downloaded ring tones from one phone to another? But I digress. who has a phone more than two years old? Ever

planted in my lip. Or maybe to sub-vocalize to pickups at the back of my throat. Sure, I really show up on my screen without me needing to carpal tunnelize myself. Not that I don't love emacs, but sometimes it's good to have an alter-Where are my implants? To talk in my cell phone, I need an earbud or other headset and microphone, instead of being able to hear from a cochlear implant and talk into a microphone imwant machines that can read my thoughts and act on them - at least enough so that I can think about typing the word "euphonious," and have it native other than vi!

cephalogram machine - that's a brain wave reader for the uninitiated) that controlled a mouse cursor on a computer. Is the problem that there are marketing geniuses that know how to sell dozens of brands of nearly identical colored sugary bubble water at a profit, but nobody thought it would be sufficiently cool to, say, just gate your way around some web pages. So why am I still using a mouse or touchpad? think your way around a kitchen? Or a factory? Or an air traffic control tower? Sheesh, you could put EEG sensors in a baseball cap and think/navi-I played with an EEG in 1994 (electroen-

Part of what the marketing geniuses evidently think is that most people are too lazy or stupid to figure out how things work, or to want to change them. These folks were born and bred on P.T. Barnum's edict that nobody ever went broke by unquite well that half of the population has a below They know derestimating human intelligence. average intelligence.

of above average intelligence? Remember what Mr. Spock told us: Superior intelligence breeds superior ambition. OK, so now we're starting to talk about some people who, like me, might enjoy But wait! What about the other half? The half

an implant or two. Who might want to do a little tweaking of their physical and virtual environ-ment. Maybe some folks who see "no user serviceable parts inside" as a disappointment - or Walk down any street, and you'll see people who are prepared to hack their own bodies. OK, so a body piercing isn't an implant, and getting a tattoo today isn't really much more high tech than what the ancient Egyptians enjoyed. But people want to hack their insides, too. From ginseng tea to diet pills, pep pills, pheromones and, of course, natural male (or female) "enhancement." You can even get one of those electronic muscle stimulators that Neal Stephenson wrote about in Snow Crash, though I have it on good authority that they're almost exactly as useful at improving your body's performance as the rest of the dreck mentioned in this paragraph.

the doubling of density of transistors on a micro-processor doesn't look like it's in any danger. But did the Mattel PowerGlove of 1996 turn into a general purpose device (with much higher reso-lution) for doing stuff in cyberspace? Nope -in fact, today's high resolution virtual reality gloves are still about \$10,000 each. If you want to interact with your electronics remotely, try a "Clapper." Computer games are cool, and Moore's law for

Tif you ever talked with someone who grew up during the 1950s (or are such a person), they can tell you about a lot of similar promises broken. The keyword was "progress." From the 1939 New York World's Fair through the Vietnam War era, it was all about promises. From cars that drive themselves, to fitchens that cook for you. Technology would create a vastly more convenient.

in print, not for download. (Despite the fact that the book was created end-to-end otherwise on a you can buy a microchip controlled greeting card it away with impunity. But if you want to read the latest good book, you'd better not like trees too Stuff that seemed impossible is now everyday. Consider: at any card shop for a couple of bucks and throw much - since that book is probably only available Somehow, stuff that didn't seem hard (neither then nor today) didn't happen.

you know that you can microchip your dog or cat in the U.S., but you can't microchip yourself or your relatives? The FDA hasn't approved microchips for human use, even though you can get computer. Don't get me started.)
Is it just profit motive that's preventing me pressure and cholesterol count, just by pointing my friendly watch-mp3-gps-bluetooth-phone device at my implant? Is it the U.S. FDA, stifling from, for example, always knowing my blood products by making them too expensive? (Did

know that many people get the wrong treatment in U.S. hospitals every day, and that microchips would be a great way to help make sure everyon in many other places, like Mexico. gets the right treatment?)

,

Yongsen Electronic Village in Seoul - I just looked. I've also looked in the electronic district lenge the dominant paradigm and break down the bars of technical illiteracy. I started writing today because I was about to pass over Sendai, and was wondering where the Ono-Sendai cyberspace deck of *Neuromancer* was. It's not in the of Tokyo, and in Silicon Valley. I happen to know some people at the Department of Defense and they don't seem to have one either. Hackers of the world: unite! We need to chal-

Who's going to build this stuff if not us? The building blocks are there - they're just hidden be-hind stickers that say "warranty void if removed." Do you think William Gibson was thinking of

Google was thought of in the 1940s - check out As We May Tink by Nameva Bush. V. Bush was hung up on microfiche, the hot technology of the day, but he had the main concepts right: he something like Google when he wrote about cy-berspace? I don't think so. In fact, something like wanted to make machines that would function as gated information space rather than physical space - but even better, since there aren't any physical limitations. This sounds like it would beat the heck out of dreaming up the right few mersed in a virtual environment where they naviextension to human memory. Bertram 1975 paper. In Gibson's cyberspace, people Brookes named this "exosomatic memory" an

search terms for Google.

Do you want to look back on 2005 in a few years and talk about how cool Slashdot was (or Kuro5hin or your favorite blogs or whatever)?

Personally, I want to look back and talk about means you – will be a Playstationed, Viacomed, CD/DVD'd couch potato, who is too busy being entertained and overfed to know their brain is how this was the year that things started to change. About how this was the year that the dreams of 1939 through 2004 decided to not rest in peace because talented people realized they selling a cyberdeck soon, they're working as hard as they can to make sure that everyone - and this or the next blockbuster movie, to realize that you turning to mush. They want you too busy wondercouldn't wait. Not only is Sony not going to start ing about the next version of your favorite game, don't even own the stuff you've been buying.

is becoming homogenized zombies - with a growing number of poor and disadvantaged to make sure the fat cats keep riding high. The worst part Just like the fable of the frog who slow-boiled without realizing it, the whole world population

-Summer 2005

is the robbing of opportunity. Opportunity lost behind stickers saying "may only be repaired by qualified service technicians." Opportunity lost tions and computers at school, at home, and in by outdated textbooks in the classroom. Opportunity lost by locking down the network connec-

event when 'they' realized that global communi-action technology threatened the power struc-ture like nothing else since the Gutenberg Press (hey, how did you think Martin Luther printed his 95 theses to post them on the church doors any-way?). Since then, the US hegemony, World Bank and other shadowy powers have used their eco-nomic and military might to pursue their own singular agenda: continuity (or growth) of power. The gloves came off. In every protest since then, worldwide, people engaging in paeceful demon-strations have been clubbed, peopler sprayed, water cannoned, and otherwise abused for trying The fight for the future is being lost on multiple fronts. As Spike Lee said, "Wake up!" The WTO protest in Seattle was a major turning point, more so than even the 9/11 attack. That was the to shape a better world.

vorite local monopoly as gatekeeper and agenda setter - you threaten the status quo by becoming It's all about the information. Every time you aget your own news, from Informedia, or Free Speech Radio News, or a blog or maiting list without Fox, CNN, NBC, NPR, or your other fa-

If you don't want to end up like Blank Reg in Max Headroom, you better get busy putting together the pieces for one of those Live and Re-

\$3 ring tones for our implants, we'd have en already. It's about power and about technology. Like always, those in power want to keep it. Maybe an implant isn't the biggest threat to power, but the fact that I'm still waiting for the checkout lady at Kroger, and still paying Cellular One, and watching every darned packet take the same exact route over the Internet, are all symptoms. The promise of technology has only been partially delivered. It's up to us to be the deliverator.

the news, you threaten even further. The Fifth HOPE t-shirts said it all: "I am the Media." A literate and informed population truly is the only way took the next step of creating

included in the script.)

If you do port it, I would really appreciate it if

mote cameras. As many discovered during the RNC convention in New York last year and at Gitmo and thousands of other improvised prisons and torture camps, the revolution will most assuredly *not* be televised. At least, not on DirecTV, getting another at WalMart. Face it: if the powers that be figured they could sell us something like ROM programmer! Figure out how to fix and improve your stuff, rather than throwing it out and Pick up your soldering iron! Grab your EEP-Time Warner Cable, etc.

Adding Sub-Domain Support to 7 Your Free DotTK Domain ▶ (

by Trent Bradley aka Blue Collar Camel

For those of you out there who are cheap like me, you may use DotTK (www.dot.tk) to get a free top-level domain name. While it is nice to have a free top-level domain name, the free version of the service was awfully limited. It offered few e-mail address forwarders and no support for sub-domains.

I appended at the end of this article as your index file (presumably named index.php), you can add sub-domains to your website. That's where PHP comes in. By using the script

You do this by using the predefined PHP vanitable HTTP_REFERER. The script looks at HTTP_REFERER. The script looks at HTTP_REFERER and replaces "http://" "www.", "your domain name", "tk", all extra "."'s (pendos) and all extra "," (forward stashes) with blank values. It appends a "/" (forward stash) for picky servers. It then sends a header back to the

-84 aged

browser telling it to redirect to the folder that is specified by the sub-domain name (i.e., http://dl.downloadsite.tk/ redirects to http:// ■www.yourwebsite.somefreehost.com/dl/). Whether or not you can do something like http://dl.downloadsite.tk/file.zip I don't know.

articles/scripts at http://www.bluecollarcamel Script Setup .net/articles/.

You can find an updated version of this script, any questions that have been asked, and other

Determine if the URL is a sub-domain. If the §redirectPath variable is blank, it means that this is NOT a sub-domain.

That would cause the script to try and redirect to "http://youraccount.freehost.com/foo"

Note: This can easily be fooled by appending text to the end of the URL. Example: "http://www.downloadsite.tk/foo"

1. Insert the script appended to the end of this article to the top of your index page before the [html] tag.

 Now rename the index file to "index.php".
 Change the \$yourDomain variable to what your DotTK domain is. (Follow the instructions included in the script.)

4. Change the \$baseURL variable to what your base URL for the script is. (Follow instructions -2600 Magazine-

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ERER thingy. If this is the case, either you have set up PHP incorrectly or your host has set it up
                                                                             2. The script doesn't pick up the HTTP_REF-
                                                                                                                                                                                                                                                               incorrectly or disabled it. Also, some browsers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Change log:
1.02; Appends a "/" to the final redirect UKL for the picky browsers/servers.
1.03; Appends as "/" to the final remove the extra "." from the entered UKL.
1.01; Fixed a bug that dim' t remove the extra "." from the entered UKL.
1.00: Initial writing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // The base Unit for this extip.
// Example: if the full UNIt to the script was "http://youraccount.freehost.com/thisscript.php"
// you'd put "http://youraccount.freehost.com/", You WGS include the lass" "/!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // Your actual DotTK domain. Do not include the ".tk", "http://", or "www."
// Example: if your full URL was "http://www.downloadsite.tk/", you would put "downloadsite".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // Get the entered domain name (by a visitor, you, etc.)
// Get the entered domain name (by a visitor, you, etc.)
// Get the entered domain name (by a visitor, you, etc.)
// Get the minimum of the plank value in the entered domain-name sequirecteath set replace("help/"." is fallomania)
// Replace the "wav." with a blank value in the entered domain-name sequirecteath set replace ("wav." "," Sequirecteath of the plank value in the entered domain-name sequirecteath set replace ("yourDomain", ", Sequirecteath)
// Replace the "kt" with a blank value in the entered domain-name sequirecteath set replace ("y" "," sequirecteath)
// Replace all "" s with a blank value in the entered domain-name sequirecteath set replace ("," ", Sedirecteath)
// Replace the possible end "" with a blank value in the entered domain-name sequirecteath set replace ("," sedirecteath)
// Replace the possible end "" with a blank value in the entered domain-name sequirecteath set replace ("," ", Sedirecteath);
                                                                                                                                                                                                                                                                                                                            (very few) don't support this.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DotTK Free Sub-Domain Script 1.02

By Trent Bradley

(C) 2005 Blue Collar Camel (http://www.bluecollarcamel.net/)
                                 you sent me a copy.
                                                                  sub-domains work.
Still have problems? Here are some possible
                                                                                                                                                                                                             1. There isn't PHP support on your server. If this is the case, you're out of luck unless someone ports it to another language (i.e., ASP, Perl).
5. Open your DotTK URL and test to see if the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    $baseURL = "http://youraccount.freehost.com/";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          $yourDomain = "yourdottkdomain";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /****************************
                                                                                                                                                                 solutions:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       `*
```

// If the URL isn't a sub-domain, the script simply displays your original index page. if (str]en(\$redirectPath) > 0) {
 Append the final redirection path to the base URL
 \$redirectPath = \$baseURL . SredirectPath . "/";
 // Redirect the (yours, visitor's, etc) browser to the actual location.
 header['Location's redirectPath'];



Getting More from

T-Mobile

phones, access customers activate prepare propriets access the CPS, runs tore reports and the like, Retail employees of T-Mohle use this system for every transaction that is done throughout the day. The tasty pear of all of this is that the Waston portal is accessible from an outside IP address. That means that you can do most of these functions from any where outside of a retail store. Now before I get into specifics, the standard disclaimer applies: This is for educational purposes only. Any actions that you take within this system are probably 5 tracked. I am not responsible for anything you do with this information. And while the following explains possible ways to activate service through IP Mobile, doing so in this system from outside of a retail stone. So I have not verified if these by a retail stone. So I have not verified if these vating new accounts for customers. The main system we used was called Watson. Watson is a web-based portal that allowed the user to run a I am a former employee of a T-Mobile retail credit check for a customer, activate prepaid store where I was primarily responsible for actiprocesses are even fully possible. If you get stopped by Watson, too bad.

Now, like I said, Watson is accessible from outside III with Thank To, and pet to it by go-ing to the III with and You concesteram.com. Click login to get to the login page. Here it asks you for a username and password. These are the usernames and passwords of each retail employee that needs to get in. At the retail store, the username and password have to be entered before every transaction, so most employees make this something very simple that can be typed in quickly. At the store where I worked, most of the people there used their username as the password. So, if your name was John Thomas, your username might be jthomas and you might set your password to jthomas. The password could be set to anything, but most people just use the username. The best way to get some usernames is to do some social engineering at your local store. Since the username is usually the first letter of the first you can get someone's business card and simply take the name off of that. Keep in mind that if the name and the first six letters of the last name, person's last name is shorter than six letters,

there is usually a number at the end. For example, John Smith might be jsmith2. So these might be harder to get.

Once logged in you are presented with the same screen that the employees get in the store. You have the following options:

New Personal Account - Where you would run New Business Account - Where you would acticredit and activate a new personal account.

vate a new business account.

Add to Existing Account - Used to add a line onto an existing account.

Work in Progress - Used to resume an activation that was interrupted. Asks for the SSN to continue.

View an Existing Service Agreement - Where you can access a service agreement (asks for SSN).

Prepaid Menu - Where you can activate prepaid Number Eligibility Query - Used to see if another provider's number can be ported to T-Mo-

POS Menu - Access the POS (does not seem to be accessible from outside the intranet). phones.

Customer Account Management (or CAM) -Used to access the information on existing accounts (does not seem to be accessible from out-

SAP Retail Store - I am not sure what this is for. We never used it in the retail store. Does not seem to be accessible from outside the intranet. side the intranet).

Change Password - duh. Log Off - duh.

Of all of these, only the POS, CAM, and SAP Retail Store seem to be blocked from outside IPs. Only CAM would be useful for our purposes, but we can live without it. Now, the fun comes when you realize just what you can do from here. Have you ever wanted to activate a new account for someone? Have you ever wanted to activate a pre-paid phone for free? Have you ever needed to add a line onto some unsuspecting person's account? Well, here is how some of that can be done.

want on prepaid without paying for the activation? Then head to the Prepaid menu in Watson. All you need is the SIM card number, the IMEI number of the phone, and a prepaid airtime card. Activating Prepaid (the easy way to go)
Do you have an old T-mobile phone that you

is all that is required) and input the rest. You have purchase a \$10 prepaid airtime card from the activate a prepaid phone in the store, the activation is done separately from ringing up the sale. So you can activate it yourself in Watson, then neering at a retail store to score one. And you can store to use for the activation. You see, when you to use a virgin SIM so just do some social engi-

Activating Postpaid (the harder way to go) just not pay anything.

the credit result will give you a choice of rate plans that you are eligible for. After picking that, the system asks for the SIM card number, the IMEI number from the phone, which city you want your phone number in, and so on. You have to use a virgin SIM so just score one from a retail store with some social engineering. If it all worked If you head to New Personal Account, you are asked for a bunch of personal info. This is information that is taken from a driver's license in orcorrectly, the contract will pop up and you will be der to run a credit check. After putting all this in, activated.

Add to Existing Account

cause that person will definitely find out about it when they get their next bill. So this is only good for short term phone usage. ter you put in a customer's SSN, you can add on a line similar in process to creating a new account. What you can add depends on that person's credit. I do not recommend actually doing this be-Using this area, it is possible to add a line onto someone's account using only their SSN. Af-

Phone, but because of the inefficiencies in the Retail system, it is often necessary for employees to call Lustomer Care. An employee would have to call in to do credit checks or to activate phones if Watson won't let them. They also call in to change Another great flaw in T-Mobile's system is their Customer Care department. These guys normally handle most customer issues over the rate plans and to extend someone's contract.

ployee is painfully simple. Every time an employee calls Customen Gae, they ask for that employee's first name. First letter of the last name, and a dealer code. All you have to do to get a set of these is to hang around in a retail store long Getting Customer Care to think you are an emenough for one of the employees to call Customer

Care for someone. When they are on the phone, you will hear them give the name and dealer code to the representative. Another way is to get a reemployee has a unique dealer code that is looked up to make sure it matches the name given. So a typical conversation would go like this: ceipt that the particular employee rang up. On each receipt is an area called Employee ID, or the like, which has the dealer code listed there. Each

To better assist you, may I have your cell phone number starting with the area code?

Employee: Hi, my name is John and I am a Customer Care: Thank you for calling T-Mobile.

direct dealer for T-Mobile

Customer Care: OK. May I have the first letter Employee: First letter is T as in Tom and my of your last name and your dealer code?

its long, but it doesn't always start with 00. Another thing is to specify that you are a direct dealer when you identify yourself. These are peothe account, you can change almost anything. As long as the name and dealer code match in the system, they are yours to command. And it doesple who work for direct T-Mobile stores as optomer's phone number and name to verify the account. Sometimes they also ask for the last four digits of the customer's SSN, but most of the time to the account. Nine times out of ten, they do what you want without ever wanting to actually speak to the customer. With this total access to all ask for the same info. So you could talk to Customer Care, Consumer Credit, or Activations and The dealer codes are usually always seven digposed to authorized agents of T-Mobile. After you give them the info, the rep asks for the custhey trust you as a dealer and do what you want n't matter which department you speak to. They as long as the name and dealer code match, you dealer code is 0045678.

you get after the credit check). From there, they verify the name and address info that you ran the credit with. After that, they ask which city you When you call Activations, you could activate tions. At Activations, they ask you for the SSN of the customer or Onyx reference number (which phones manually through them without entering the store. First you would talk to Consumer Credit to do a credit check, then you would go to Activawant your phone number in and which rate plan

The Fifth HOPF VCDs from The

are now available

They consist of all of the talks which took place in the two main tracks of the conference, which occurred in July 2004. There are 78 discs in total! We can't possibly fit all of the titles here but we can tell you that you can get them for \$5 each or \$200 for the lot. Much more info can be found on our website (www.2600.com) where you can also download all of the audio from the con-Ference. If you want to buy any of the VCDs, you can send a check or money order to 2600, PO Box 752, Middle Island, NY 11953 USA or buy them online using your credit card at store. 2600.com.

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-P & 9 e

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you want. Then they ask for the SIM card number and the IMEI number from the phone. Remember that it has to be a virgin SIM so score one from a retail store. Now, activating a phone with a rep is not going to do you much good unless you do it under someone else's name. If you did it under your name, you would still be subject to the want. Then they ask for the SIM card number activation fee and to the annual contract.

Many of these huge security flaws could be be made to the verification process that Customer easily corrected by blocking access to Watson from outside IP addresses. Changes also need to

speaking to a dealer. Employee ID numbers should not be printed on anything that is given to the customer. With these simple changes, T-Mobile could take active steps in sealing these gaping Care goes through to ensure that they are actually holes.

So there you go, kids. Have fun, but don't do anything stupid. Now you can truly Get More from T-Mobile. Shout outs to Amanda, Req, and the rest of the crew at the TPG.

until [1 -eq 2]; do
cat /var/spool/mail/muskrat |grep
acommand| awk '{print \$3}''
sleep 2
done that command we came up with in a loop. ----checkmail.sh-----

So, until 1 eq 2, execute the command, sleep for two seconds, and then execute again. This is an infinite loop because 1 never equals 2. So fire up this shell command using 'sh checkmail sh' as root (so you can execute commands like reboot), and then go to your cell phone.

Send a picture message (or a text message if you are able to), and specify the Subject as "command reboot". Send the message. If you set up

everything properly, your system will broadcast a message and reboot

root waits until the message arrives from Broadcast message fr (Thu Mar 17 17:48:03 2005);

polaris:~# sh checkmail.sh <-- system

I recommend being careful with this for obvious reasons! Hopefully you learned something The system is going down for reboot NOW!

Thanks to people in ##Linux and ##Slackware for some suggestions. Shoutouts to my new like me. boys.

For this example we will use the operator

checksum) and multiply that number by 3 (44-24-440-4 167 = 48). You must then add in the skypond numbers (841-14-1484-2 = 63) and the answer is 63. The digit in the ones place ators, the nonstandard checksum will have to be figured out by hand. To do this we will first add cluding the EAN checksum and the nonstandard cally generated using a number of barcode generall of the odd places of the barcode number (ex-

in the beginning, which is also encrypted. Due to the limitations of the barcode system it would be decrypt our password we should remove 3 from the 8 [5], 4 from 0 (or 10) [6], 5 from the 2 (or crypted (barely) to be 8024. Some quick notes about passwords on these systems: passwords can contain only numbers and can be no more my guess that any password with more than four four digits. We continue. In order to encrypt our password the software has added 3 to the first digit, 4 to the second, 5 to the third, and 6 to the fourth and has not carried any placement. So to The password for the operator has been enthan four digits in length. Any passwords less than four digits automatically have 0's inserted digits (if allowed) would only use the first or last

Careful using this software outside the U.S. as many product barcodes as they have the rights to already exists wouldn't it be possible to add a of the barcode at all? This would also make it possible for someone to change the barcode and not these barcodes may be in conflict with some Ger-EAN 400-440. Also, since the database of users field for barcodes so passwords wouldn't be part the password and to provide limited access parcode users.

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NCR: Barcodes to Pass

This article is an addition to one featured in 21:4 titled "Selfcheckout or ATM?" which intro-

will read the mail file and pipe it to grep. Grep searches for the string 'command' and pipes the line containing it to "awk". Awk takes the string and prints only the third (\$3) field in the line. So if the line was "command test who", awk would only return "who", Finally, the and "around the command indicate to the shell to execute the playing around with various possibilities, I decided the best way to execute would be the The breakdown of the command is this: cat

The most efficient way to avoid screwups I to specify the command. When using the body of the message, I ran into problems because the

command resulting from whatever is within So in this case the shell would execute "who".

found was to use the Subject: part of the header

by Bob Krinkle

will be our checksum.

the NCR E-Series Selfcheckout software. Second of this article will cover the method of crating operating override barcodes knowing operduced some of the features and functionality of ator numbers and passwords and reversing an existing barcode to operator override number and password. number 1234, the password 5678, and the barcode will be 4212234602430. It will be easier to
discuss this barcode in parts. (412) signifies to
the system that the barcode is an operator overinde barcode. The max set 11234 if she operator
override/logon number (those of you familiar
with POS know only numbers are typically used and have a limited tendingth. The following four
[8024] is the operator's encrypted password,
which we will cover more in depth later. And the
ast two parts consist of a nonstandard checksum
[3] and an EAN checksum [0].
Though the EAN checksum can be automati-

12) [7], and 6 from the 4 (or 14) [8]. Thus our

barcode reveals that user operator is 1234 and the password is 5678. The reverse process and

adding the checksums can be used to create a

barcode from only a logon number and password.

2600 Magazine

Now that we can send a command to our machine, we have to be waiting for it. The best way to do this would be a shell script which executes

phone automatically uses HTML messages.

-Summer 2005

execution

Ē

by Muskrat

tain string in the new message and perform an action based on that string. Mail (at least for me) as stored in the file /var/spool/mail/muskrat. The file contains the message headers (which

At that point I needed a way to test for a cer-

ıŢi

ر 5

contains information such as date, sender, sub-ject, status, and so on) and then obviously the bodies of the messages. So I knew where the in-formation was stored; Jiust needed a way to pull the desired information from it.

into play: cat, grep, and awk. Hopefully everyone is familiar with these tools. After a little bit of

following string:

This is where three standard UNIX tools come

phone. I was also home on Spring Break and I left my computer at my dorm, confident that remote access would be sufficient. So I've been Last night I was sending myself picture mespressed by the speed at which information travels, even when sent from a tiny cellular sages from my cell phone. I never cease to be implaying with the notion of remotely running com-

mands in an unconventional way.

Naturally I wondered if it would be possible to run commands on my Linux box via my cell phone

(from 100 miles away). I fumbled this idea around in my head and decided that the only way to do it would be using text messaging.

gmail.com automatically or B) send messages "directly" to my machine. Since gmail requires authentication, I decided to go with B (because Up until this point I had been sending photo setting up an automated authentication procedure would be much more complicated than the alternative). I didn't have my system set up as a etd.conf, starting up sendmail), I tested to see if retrieve them and save them manually. I needed a way to either A) retrieve messages from needed. I also read a little bit about the mail delivery process to understand the basics of what After everything was installed (which was trivial) and activated (i.e., editing inmy system could actually send/receive mail. I sent a message from gmail to my domain and messages to my gmail.com account where I could mail server, so naturally I needed to do that first I installed the packages for sendmail, procmail, then checked pine. Sure enough, the message to make sure I had everything etc.

-P a g e

Restri Defeating BitPim

me his number and I got to work. The Application

I'm sure many of you had to delete some pictures in order to get BitPim to not cause an exception and crash. I've found a workaround to get all the Okay folks, I'm sure many of you are aware of the problem with BitPim when it comes to down-loading more than 20 pictures from your handset. images out of the handset.

Tools required: Data Cable

USB -> Serial Drivers BitPim (latest version .30) QPST 2.7 UniCDMA 1.095

Now you wonder why you need all these applibations? Well, using QPST you can explore the entire file system on the phone. However, you need an SPC code to access this interface. A service programming code is embedded in the phone by your provider and is required to do any real in the phone. programming to the handset.

UniCDMA can be used to retrieve this code for some handsets/providers. However for me it did not work (I'm with Telus).

directory on your handset. Inside this directory are files named nvm_0000, nvm_0001, and so on. Right click on nvm_0000 and do a Hex Dump If UniCDMA doesn't work for you either, you can use BitPim to access files in the /nmw/nmw/



by gLoBuS

I happily opened up my copy of 21:3 a little while ago and read the fascinating article on decoding Blockbuster. While I haven't tried the trick, it got me thinking about barcodes in general. I attend a medium sized high school with tabout one thousand students and a few hundred I may show you ways to circumvent a certain school's security, please insert the standard faculty members. Our district has several elemenjunior, and senior high schools. Every student and faculty member has a unique ID number for many uses that I will get into later. Although tary,

At location 00000010 you should see two sets of digits, both six in length. The first one should be your SPC code that you need to gain access to the GPS interface. There are some rumors that the SPC code might be contained in nym_0002 in some situations, so just keep on trying to find combinations of six digits to use as your SPC code. In my situation my "phone lock" password was contained in the nvm_0002 file. to see the contents of the file right in BitPim's interface. You should see both Hex and Ascii data.

two files: ".desc" and "body". The file "body" is actually the image. Right click and Save to Disk, til you've got less than 20 and you can do it via BitPim. I don't suggest deleting the picture direc-tories from within QPST but via the phone dicessfully entered it into QPST you have full access (no crashes with 57 photos) to the file system of your handset. Browse to the /cam/ directory and you'll see directories of your pictures (i.e., /cam/pic01.jpg/). Inside these directories are rename it to pic01.jpg (with the extension), and Once you've acquired the SPC code and sucvou're set. You can manually save all the files un-

Be careful and have fun! Always remember to backup your phone data before doing something dangerous. And of course, I'm not to be held



disclaimer here and don't do anything stupid. The Discovery

ways, I was passing through on my way to lunch when I noticed this. With wallet in hand and eyes on my student ID card, the light bulb flashed. I should see if I can recreate my own barcode online. So for the fun of it I tried. Using the proper An art student at my school was working on a project one afternoon when I came into the art room. This student had used the barcode generator from barcodesinc.com to generate a random code for artistic expression in her project. Anysymbols (which I guessed), I was able to make a

I was able to access my grade's mass listing of student ID numbers. By going up a few levels was a carbon copy of his. Being that he is on staff and that he was once a computer repairman for to the school. If activated his card would give him the right to go to the main district server room. Going to my next class, I remembered that the district he reminded me of the access that his card granted him. His barcode, along with other teachers, could be read and used to gain access for him and it as they are. He had me copy his ID JPEG file of my ID card's barcode. Well this is all enough, my friend's name showed up on the screen. She reminded me that I only had \$5 left good, but what use is this to me if it's my own number? So I found a friend who willingly gave Using plain old MS-Word, I was able to print up the proper sized barcode to fit on the back of my card. Using my friend's ID number on my card, we went up to the lunch line. Lunch was almost over so it was fairly quiet. I had the lunch lady check the balance on the account and, sure

count numbers are as accessible and reproducible

Conclusion phabetical order.

from my user account on our network, I was able to see all the ID numbers for every student in al-

my account and we happily returned back to

in my account and we nappuy reconnect the art room. Once we got there I got to thinking.

I asked my computer class teacher to bring this to the attention of the right people and not implicate me on the way. He did and we've wait-ing for the change to take place. Until then, I plan on paying for my lunch with cash.

but also computer logins, book checkouts, and teachers have many other uses for them. I

my findings to my computer class teacher. He was shocked and amazed that the ac-

brought

This ID is used for not only lunch accounts,

Revealed

Secrets Remote

by The AntiLuddite I somehow reached my mid 30s without buy-

ing a new car and I had no desire to buy one when I accompanied my girlfriend to a nearby Toyota dealership. I merely wanted to help her find a replacement for her 1991 Camry. After test of the rabbit hole and discovered that I was the legal owner of a 2005 RAV4. driving a number of cars, haggling with the salesman, a tearful scene as the old car was driven away, and a couple of hours in the tentacled embrace of the finance department, we fell back out

About two weeks after the purchase, my girl-friend threw her security remote against the garage door. I'll omit the details of her feud with the car and get to the point: her remote no or disarmed the security system. And this is where my story begins. longer armed

shaped remote when I pushed the red button or either of the smaller black and green buttons, so blow caused it to lose synchronization with the I knew some life yet remained. I suspected the An LED still flashed at the tip of the bananavehicle. A yellow sticker on the back read:

ter and the red light turns on but your vehicle "If you press the red button on your transmitdoes not respond, press and release the red but-ton two times within one second."

ond. The remote still didn't work. There was a suggestion that timing was important. For five ually increasing the frequency of my clicks as I tried to hit just the right interval. I finally decided to consult the owner's manual like a good Simple enough. I pressed and released, pressed and released the button within one secminutes I clicked, slowly, then slower, then gradlittle consumer.

age to find a small plastic packet with a yellow card though. It read like a trade show blurb: "Each time you press a button on the trans-mitter, a new code number is sent to the vehicle The booklet said nothing about this particular device; the figures weren't correct and the text described an entirely different remote. I did man-

tem, then re-sending that code later to gain access to your vehicle. Some high tech thieves use an electronic device known as a 'code grabber' to do just that!" code number. This eliminates the possibility of a thief reading your code as you disarm your sysand the vehicle will no longer respond to an older

self. The bulk of the text had an annoying number of exclamation points, as if it had been written to be read to children during story time The remainder of the card was an elaboration of the instructions on the back of the remote it-

I know some devices get wonky when their power supplies run low so I decided to replace the batteries. The case only had a single screw. The interior was sparse; the most interesting feature was a lone chip marked NTK031. The battery was a generic 12V MN21/23 that I replaced with a Duracell. This is a battery that had aspirations to become a AAA but failed halfway; it's a smalt, unusual battery most commonly used in garage door openers and security remotes.

2.

I went back outside to the car. The LED winked as a brightly as before, but the car refused to acknowledge my thumbing. I was desperate, so I tempted madness by double clicking the red button again expecting a different result. I put the tew in the ignition and turned it on, still clicking the remote. The device lay in my hand like a florken toy.

from my college days and how they could program each other through their infrared ports. I had another, working, remote, so for a few minutes I tried to program the mute with its twin but I remember the ubiquitous HP calculators I was still denied.

my first visit to the dealer's service center since the purchase and I was optimistically expectant, fool that I was. was getting nowhere with my investigation. I decided to let the dealer take care of it. This was

would try to find someone to examine my remote but "it might take some time." After waiting an hour and a half (I'm not exaggerating), a technician walked over and verified that the remote was indeed out of synch with the car. He told me I could wait in the customer lounge while he fixed found a disinterested clerk who said it, so I followed him outside.

didn't have a good vantage point but I could see the tech was pressing the valet switch under the dash. This was curious. None of the documentation mentioned that the valet switch was used to program the remote.

switch is a small, push-button toggle with an LEb, usually located on the drinvers side but sometimes under the sear or in the glove box, that temporarily disables the security system so For those with cars that lack one, the valet you don't have to hand your remote to a car attendant. It's often used to disable the alarm when it's accidentally triggered.

As the guy began fingering the dash, the car seemingly in distress, like a large animal being said it was fixed and started to walk away. I went after him for an explanation. After five minutes and blinking its headlights, violateď by a veterinarian. I realized the chatter was some kind of feedback. The tech hopped out, started honking

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of his reassurances that if it ever faulted again he would be happy to take care of it, I realized that I wasn't going to get the data I needed without pinning him to the ground and holding my keys his throat. At least he didn't charge me.

work. This is the button that turns on the head-lights for thirty seconds. It's a nice feature to have when you've lost your car in a parking lot so I drove back to my townhouse and discovered that the green button on the remote still didn't n't essential but it still meant I had a device with well that you can't hear the horn. Okay, so it wasa non-working function. I couldn't sleep until fixed it.

ously intended the programming to be noisy; it and keep living period - I decided to find an empty parking lot to continue my experimenta-I began to experiment with various combinations of valet-switch presses and remote-button clicks. The car began bleating loudly again and flashing its lights. I succeeded in programming the green button with the functions of the red button - and pissing off my neighbors who stared at me through their windows. The designers obviwas almost as bad as the alarm. At least no one can reprogram the system without the owner's knowledge. Since I wanted to keep living here tion.

programming information using two clues from the remote's shell: a white label - TDS - and an FCC ID of ELVATSG. I felt like kicking myself for But first I decided to consult the Internet for not running a search earlier.

fer. I was able to identify the remote using a remote wholesaler's website, but they only offered programming instructions with a purchase from their site. Another site offered the instructions separately but for an inflated fee, and with a stated disclaimer that they made no refunds or guarantees that the information was even valid. tions (though not my model), and I was struck by the unfairness of the whole situation. Toyota's website had absolutely nothing to of-A seller on eBay auctioned car remote instruc-

cept the hour and a half wait for something I could do myself in less than a minute. Some dealto returning the car to the dealer whenever the I had two choices: I could pay an additional fee to acquire operational information for a device I'd already paid for, or I could resign myself remote needed to be reprogrammed and just acers even charged for this service. I was not

I discovered that my device was closely related to another remote known by the FCC ID of APS95BT3. It operated at 434 MHz. It was manufactured by a company known as Prestige, which appeared to be a subsidiary of Audiovox. Au-

ual on their website rather than charge for it. The manual didn't describe an exact procedure for my remote, but the documentation was very close flovox had wisely and graciously included a manand helped immenselv.

ing information that wasn't in the guide, as well as some personal experiences. Those wanting the information straight from the source should point their browsers to http://www.audiovox
■.com and select the Find a Product -> MOBILE structions in the manual and added some clarify Below I've paraphrased the programming Security and Remote Start Systems. > Car

How to Program a Prestige/ TDS/Audiovox (APS95BT3/ELVAT5G) Remote:

The remote is a three-button, seven-channel transmitter. Most car security systems only have higher channels in the remote can be programmed for an additional car, but I did not test three or four channel receivers; theoretically, the this. Below is a table outlining the channels:

Buttons Channel Function

Transmitter

Channel

indicating the signal has been stored into memory. 5. Flip the valet switch on then off (one blast), i cycle)

mote) until the siren sounds a long chirp (horr

The valet LED flashes twice (a repeating for process repeats channels 2 to 4: the Here

7. Press and hold transmitter button 2 until the siren sounds a long chirp, indicating the double flash) and the siren chirps twice to indicate the system is ready to program channel 2.

ing triple flash) and the siren chirps three times to indicate the system is ready to program channel.

10. Press and hold transmitter button 3 until 8. Flip the valet switch on then off. 9. The valet LED flashes three times (a repeatsignal has been stored into memory.

the siren sounds a long chirp, indicating the sighas been stored into memory. (Important:

car's security system, or if it's even there. This is why the Toyota tech couldn't get the green button to work. I had to skip step 10 could not program trans-mitter channel 3 (button 3) for receiver channel 3. I do not know what receiver channel 3 is used for in my and program transmitter channel 3 (button 3) for receiver channel 4. This reand continue with step 11, remote headlight function to my green stored the channel 3 Switched output for accessories Switched output for accessories Pulsed output for accessories (lock/unlock w/o alarm on my Remote door lock/unlock (Headlights on my car) Remote emergency panic Remote arm and disarm (nothing on my car)

Flip the valet switch on then off.
 The valet LED flashes four times (a repeat-

The following procedure will program a new

1, 2, 3 -

1, 2 2, 3

remote or reprogram an unsynchronized remote.

ing quadruple flash) and the siren chirps once to indicate the system is ready to program channel 4.

13. Press and hold transmitter button 4 until the siren sounds a long chirp, indicating the signal has been stored into memory. Any discrepancies or clarifications are in parentheses. Each step must be performed within 15 seconds of the previous step or the system will 1. Turn the ignition key to the "ON" position.

14. Turn the ignition key off. The siren will sound one short chirp followed by one long chirp End the process:

(You do not need to start the engine).
2. Flip the valet switch on-off, on-off,

exit programming mode.

Note:

of time that I experienced attempting to use what is otherwise a great product. I think it's I hope that someone finds this information useful and it spares them the frustration and loss worth noting that none of the security system documentation from Toyota that was included with this brand new car was even "remotely" to signal the system has left program mode. with this brand new (My valet switch is on when pushed in and the light is off. Conversely, it is off when popped out and the light is on. Whatever your configuration, the switch needs to be cycled three times.)

3. The valet LED flashes once (it repeats a single flash pattern) and the siren (horn) chirps once to indicate the system is ready to program Press and hold transmitter button 1 (or

whatever button you want to program on the

channel 1.

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Happenings

For Sale

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MACE MODIFICATION OF SECURITY BEREACHES at your band? Heard runtions of ancested controller delabases? Now there are underdesced where their behalf is a re-trained of the control of the

AMT.CEGORGIF LINUX MOSTING. Fallers internet provides affordable web hardregs and strongly and processor. A 2 determination of the provided and processor. A determination of the processor of the proc

Announcements

OFF THE HOOK is the weekly one hour hucker radio show presented Weshneday mights a Cybe of Fill of Well-25 Kim Heave Vice, You can also close then nover the rest a view. 2000 carroy-differebook or on shortween in North and South heart less at Sticks. Activities of all sticks as the second at the Cope of the Cybe of

IN 183 105 105 or one through on their store at Nativilysta 2000 cam. You Indicated at the program is shown without the program is shown without the program is shown without the program is shown with the program is better out the shown with the program is defined to the program of the shown with the program is the shown with the program is the program of the shown with the program is the program in the program in the program in the program is the program in the program in the program in the program is the program in the program in the program in the program is the program in the program in the program in the program is the program in the program in the program in the program is the program in the program in the program in the program is the program in the program in the program in the program is the program in the program in the program in the program is the program in the program in the program in the program is the program in the program in the program in the program is the program in the pr

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ONLY SUBSCRIBES CAN ADVERTISE IN ARROW Don't even think about Trying to the death of the individual control and the control and the solid to the control and the West Subscribes of Course on remove the solid to ask in the solid to ask in the solid to ask in the solid to the solid to ask in the solid to the solid to the solid to ask in the solid to the solid to

Summer

TwidSS

Object oriented language
 Eight bits on a 6502

- How much space is left
 Old telco exchange format
 - 13. Roor's is 0

 15. X.25 and body
 16. Common but, size
 17. 1582 LL. Cool Jul
 26. X.25 home base
 27. Righted cipher
 29. Precedes the waw
 31. Neighbor of ES
 32. Was ZDTV
 33. Disk
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 27. IRC client
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 Link God's command
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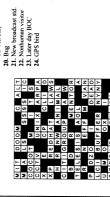
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7. Off The

8. "Is this thing ?"

9. Public key crypt corp.
10. Calls Datenschleuder



25. Former Off The Hook co-host

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35. Major American X.25

36. Phreaker zine from the 70's 38. Man is good for this 40. Desktop

41. License, eg.
43. Ara we there yet?"
47. HAL
50. A Plastic Bands
52. The place to be this summer
54. Touality Degradation"
56. Errors
58. "Also" on RC

14. _____ Datenschleuder
18. Pound sign
19. Start of an MF number (See 68- Across)

Indicator light (abbr.)
 DC villainous namesakes
 Text (acro.)

Do you find it annoying that you had to leave your house to find copy of 2600? D

Did you know there is an easy solution that nvolves not having to leave your domicile at all?

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Time is beginning to run low. That's right, the deadline for the Freedom Downtime Easter Egg Hunt will be upon us before the necessary of the first in the first issue is out.

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All beat is sue way so that you get a little of the film and its constitutes an Easter Eggs Any English in some way so that you get a little deal in some way so that you get a little of the film and its constitutes and the some way so that you get a little of the film and its constitutes and the some way so that you get a little of the film and its constitutes and the some way so that you get a little of the some way so that you get a little of the film and its constitutes and the some way so that you get a little of the film and the some way so that you get a little of the some way so that you get a little of the some way so that you find one of these, we expect you to tell us how you found it and what others must do to see it. Simply dumping the data on the DVO.

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One item of every piece of clothing we selt
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enter as many time as you wish. Your best
score is the one that will count. Remember,
there is no second place! So plan on
spending the rest of the summer indoors. that. We will be judging entries on thor-

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Gremstoro; Bear Rock Cate; Gremstoro; Bear Rock Cate; Friendly, Shopping Center; 6 pm. Rateigh; 16k Cate And Internet Gam-ing Cate; Royal Mail, 3801 Hillisbor-ough St. 6 pm. Willmington: Independence Mall food Pittaburgh, William Pitt Union building Pittaburgh, William Pitt Union building by the Bigdow Blod, entrance, by the Bigdow Blod, entrance, South Carolina Charleson: Northwoods Mall in the hall between Sears and Chik-Fil-A. South Dakota. Allentown: Panera Tighman St. 6 pm. -rathia: 30th St. Station, under Centule, of Wisconsin Medison: Union South (227 N. Ran-dal Ave.) on the lower level in the Marin Luther King L. Lounge. Pay-phone: (608) 251-9909 Milwaukee: The Node, 1504 E. North Oregon Portland: Backspace Cafe, 115 NW 5th Ave. 6 pm. North Dakota st Acres Mall food court by Akron: Arabica on W. Market St., intersection of Hawkins, W. Market, and Utah Salt Lake City: ZCMI Mall in The Park Food Court. of the cale. Virginia Arlingone: (see District of Columbia) Virginia Beach: Lynnhaven Mall on Lynnhaven Pakway, 6 pm. Washington State Convention Center: 6 pm. To start a meeting in your city, leave message & phone number at (631) 751-2600 or send email to meetings@2600.com. Tennessee availle: Borders Books Cafe ass from Westown Mail. mphis (Cordova): San Francisca d Company, 990 N. Germanton kway, 6 pm. shville: J-J's Market, 1912 Broa Boulder William Colorado Boulder William Control De Co Ann. 4,4601 Grape. Kansas Overland Park): Oak Maryland Saltimore: Barnes & Noble cafe at the Rivalz Road. court. 7 pm. i court. erside Perk, 1144 Bitting Michigan He Galleria on South ansas City (Ove I. 7 pm. IRELAND the phone booths on Wick-- Records, 7 pm. In Diagon Regards Pizza, 4150 Rev. L. Pallorises and Madagon Regards Pizza, 4150 Rev. L. Pallorises Rev. Will Pallorises of Francisco. 4 Embarcadero Piaza. Prancisco. 4 Embarcadero Piaza. A. 9805, 9806. Psychonomics, (415) 398-9803, A. 9805, 9806. A. 9805, 9806. A. 9805, 9806. Psychologic Rev. Pallorises and Athana at 4th and E. San Feir- Feir Changa at 4th and E. San Feir- Feir Feir- Feir Changa at 4th and E. San Feir- Feir Feir- Feir Changa at 4th and E. San Feir- Feir Feir- Feir Changa at 4th and E. San Feir- Feir Feir- California s Angeles: Union Station, corner Macy & Alameda, Inside main enMacy & Harmeda, Inside main enMacy & Bank of phones. Psyphones: 24, 813-974, 9746. 24, 813-974, 9746. 8 Washington St. New ZEALAND NEW ZEALAND Auckland: London Bar, upstairs, Nellesley St., Auckland Central. 5:30 Washington St. inge County (Lake Forest): drich Coffee, 22621 Lake For be train station. UNITED STATES Alabama arata St. 8 pm. GREECE Dublin: At the p low St. beside T Actoria: QV Bakery and Cafe, 1701 Sovernment St. Iull: The Old Gray Mare Pub, Cotting am Road, opposite Hull University. Moncton: Ground Zero Networks Internet Cale, 720 Main St. 7 pm. Ontario Barrie: William's Coffee Pub, 505 Hong Kong: Pacific Conv. Walk, Kowkoon frong, 7 pm. CZECH REPUBLIC **raque: Legenda pub. 6 pm. DENNIARR. **-446/8 pool F ire. 7 pm. pshire: Outside the Guildhall, BRAZIL ite: Pelego's Bar at the payphone. 6 pm CANADA Alberta eNGLAND sighton: At the phone boxes to life Centre (across the road: Salace Pler). 7 pm. Payphome and the control of the contr Manitoba Vital Shopping C AUSTRIA altestelle on Montreal: Bell An ue de la Gauchet Graz: Cafe Halte

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Payphones that used to be on the other side of this page can now be found on Page 2!